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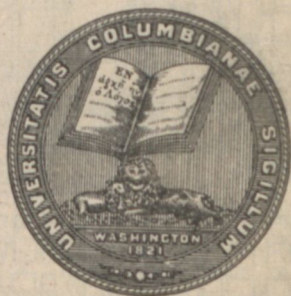
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1895/96

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CATALOGUE
OF
THE COLUMBIAN UNIVERSITY

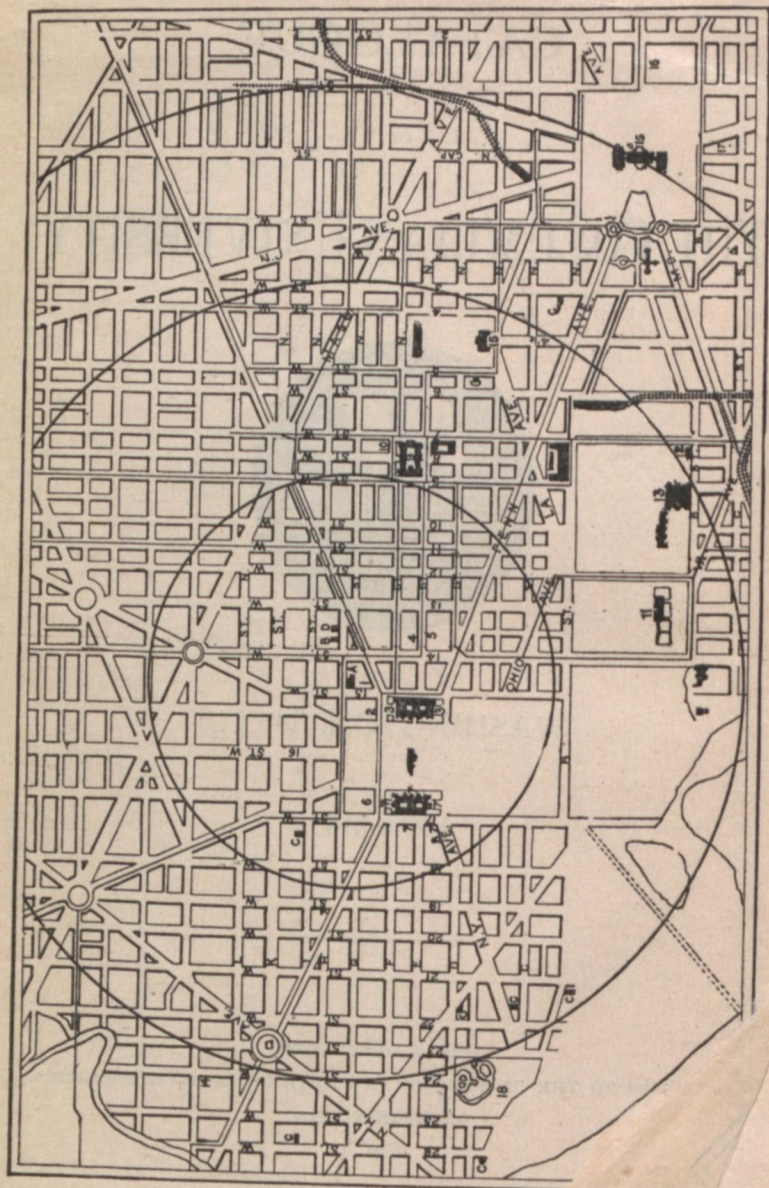


WASHINGTON, D. C.,

1895-'96.

JUDD & DETWEILER,
PRINTERS TO THE UNIVERSITY AND TO THE SCIENTIFIC SOCIETIES
OF WASHINGTON
1896.

532925



KEY TO THE MAP.

The circles on the map are drawn with radii of 2,000, 4,000, and 6,000 feet respectively from the main building of the University as a center.

A—The main building of the University, southeast corner 15th and H streets, N. W.

B—The Columbian Academy.

C C C—Parcels of ground belonging to the University.

D—The Medical and Dental School building.

LIBRARIES, NUMBERED IN THE ORDER OF THEIR PROXIMITY TO THE UNIVERSITY.

Within less than a five or six minutes' walk :

1.	Library of Department of Labor,	8,000 volumes.*
2.	" " Department of Justice,	30,000 "
3.	" " Treasury Department,	22,000 "
3.	" " Light-House Board,	4,000 "
4.	" " Bureau of Statistics,	5,000 "
5.	" " Geological Survey,	31,000 "
5.	" " Bureau of Ethnology,	5,900 "
6.	" " Corcoran Gallery of Art,	2,500 "
7.	" " War Department,	37,000 "
7.	" " Navy Department,	25,000 "
7.	" " Department of State,	50,000 "
7.	" " War Records Office,	2,000 "
7.	" " Hydrographic Office,	3,000 "
8.	" " Museum of Hygiene,	10,500 "

Within a five or ten minutes' ride by the street railway :

9.	Library of United States Patent Office,	50,000 volumes.
—.	" " Interior Department,	12,000 volumes.
—.	" " Post Office Department,	10,000 volumes.
10.	" " Bureau of Education,	30,000 volumes.
11.	" " Department of Agriculture,	20,000 volumes.
12.	" " Army Medical Museum,	105,000 volumes.
13.	" " United States National Museum,	16,000 volumes.
14.	" " United States Weather Bureau,	11,000 volumes.

Within a fifteen minutes' ride by the street railway :

15.	The Library of Congress,	700,000 volumes.
15.	The Library of the United States Supreme Court,	80,000 volumes.
15.	The Library of the Smithsonian Institution,	250,000 volumes.
16.	Site of the new Congressional Library.	
17.	Library of the United States Coast and Geodetic Survey,	12,000 volumes.
18.	Site of the old United States Naval Observatory.	

Within a thirty minutes' ride by the street railway :

Library of the new United States Naval Observatory (not indicated on map), 13,000 volumes.

Library of Nautical Almanac Office, 2,000 volumes.

* Number of volumes July 1, 1893.

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UNIVERSITY CALENDAR.

Current Academic Year, 1895-'96.

1895.

Sept.	20.	{ Examination of Candidates for Admission }	Friday.
	21.	{ to College, Medical and Dental Schools. }	Saturday.
Sept.	23.	—College Session begins.	Monday.
Sept.	23.	—Session of the Columbian Academy begins.	Monday.
Oct.	1.	—Session of Medical School begins.	Tuesday.
Oct.	1.	—Session of Dental School begins.	Tuesday.
Oct.	2.	—Session of Scientific School begins.	Wednesday.
Oct.	3.	—Session of Law School begins.	Thursday.
Oct.	4.	—Session of Graduate School begins.	Friday.
Nov.	28-30.	—Thanksgiving Recess.	
Dec.	4.	—Annual Meeting of Alumni.	Wednesday.
Dec.	24-Jan. 5, 1896.	—Christmas Recess.	

1896.

Jan.	20.	—First Term College Examinations begin.	Monday.
Jan.	23.	{ First Term Scientific School Examinations begin. }	Thursday.
Feb.	3.	{ Second Term of College and Scientific School begins. }	Monday.
Feb.	22.	—Washington's Birthday.	Holiday.
Apr.	3-6.	—Easter Recess.	
Apr.	28.	—Commencement of Dental School.	Tuesday.
Apr.	30.	—Commencement of Medical School.	Thursday.
May	4.	{ Examinations for Degrees in Graduate School to be completed. }	Monday.
May	18.	{ Reports of Examinations for Degrees in the Graduate School to be rendered. }	Monday.
May	19.	{ Examinations for Degrees in Law School to be completed. }	Tuesday.
May	20.	{ Examinations for Degrees in College and Scientific School to be completed. }	Wednesday.
May	25.	{ Second Term Examinations in College and Scientific School begin. }	Monday.
May	30.	—Decoration Day.	Holiday.

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1896.

June	3.—Doctorate Disputation.	Wednesday.
June	7.—Baccalaureate Sermon.	Sunday.
June	8.—Commencement of Graduate School.	Monday.
June	8.—Commencement of the Academy.	Monday.
June	8.—Exhibition Day.	Monday.
June	9.—Commencement of Law School.	Tuesday.
June	10. { Commencement of College and Scientific School.	Wednesday.
June	15.—Annual Meeting of Corporation.	Monday.

Academic Year, 1896-'97.

1896.

Sept.	28. { Examination of Candidates for Admission	Monday.
	29. { to College, Medical and Dental Schools.	Tuesday.
Sept.	30.—Session of all the Departments begins.	Wednesday.
Nov.	26-28.—Thanksgiving Recess.	
Dec.	2.—Annual Meeting of Alumni.	Wednesday.
Dec. 24-Jan. 4, 1897.	—Christmas Recess.	

1897.

Jan.	18.—First Term College Examinations begin.	Monday.
Jan.	21. { First Term Scientific School Examinations begin.	Thursday.
Feb.	1. { Second Term of College and Scientific School begins.	Monday.
Feb.	22.—Washington's Birthday.	Holiday.
Apr. 16-19.	—Easter Recess.	
Apr.	27.—Commencement of Dental School.	Tuesday.
Apr.	29.—Commencement of Medical School.	Thursday.
May	3. { Examinations for Degrees in Graduate School to be completed.	Monday.
May	17. { Reports of examinations for Degrees in the Graduate School to be rendered.	Monday.
May	18. { Examinations for Degrees in Law School to be completed.	Tuesday.
May	19. { Examinations for Degrees in College and Scientific School to be completed.	Wednesday.
May	24. { Second Term Examinations in College and Scientific School begin.	Monday.
May	31.—Decoration Day.	Holiday.
June	2.—Doctorate Disputation.	Wednesday.
June	6.—Baccalaureate Sermon.	Sunday.

1897.

June	7.—Commencement of Graduate School.	Monday.
June	7.—Commencement of the Academy.	Monday.
June	7.—Exhibition Day.	Monday.
June	8.—Commencement of Law School.	Tuesday.
June	9. { Commencement of College and Scientific School.	Wednesday.
June	14.—Annual Meeting of the Corporation.	Monday.

THE COLUMBIAN ACADEMY.

CALENDAR.

1896.

Sept. 28, Monday.....	Entrance Examinations.
Sept. 30, Wednesday.....	First Term begins.
Nov. 26-29, inclusive.....	Thanksgiving Recess.
Dec. 14-18, inclusive.....	Examinations.
Dec. 18, Friday....	First Term closes.

WINTER VACATION.

1897.

Jan. 4, Monday.....	Second Term begins.
Feb. 22, Monday.....	Washington's Birthday, Holiday.
March 15-17, inclusive.....	Examinations.
March 17, Wednesday.....	Second Term closes.
March 18-21, inclusive.....	Spring Recess.
March 22, Monday.....	Third Term begins.
April 16, Friday.....	Holiday.
May 31, Monday.....	Memorial Day, Holiday.
June 1-4, inclusive.....	Examinations.
June 4, Friday.....	Third Term closes.
June 7, Monday.....	Annual Graduation Exercises.

EDUCATIONAL FACILITIES OF WASHINGTON.

Washington is rich beyond any other American city, not only in the special libraries enumerated in the page facing the map, but also in large collections, illustrative of the various arts and sciences, which have been accumulated at the National Capital by the action of Congress through a long series of years. Under many of these heads Washington is not surpassed by any European capital. In view of the fact that in collecting these archives and materials it was the original purpose of the Government "to promote research and the diffusion of knowledge," the Congress of the United States has made these treasures accessible to students under the terms of the following Joint Resolution, approved April 12, 1892:

"Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That the facilities for research and illustration in the following and any other governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit:

1. Of the Library of Congress.
2. Of the National Museum.
3. Of the Patent Office.
4. Of the Bureau of Education.
5. Of the Bureau of Ethnology.
6. Of the Army Medical Museum.
7. Of the Department of Agriculture.
8. Of the Fish Commission.
9. Of the Botanic Gardens.
10. Of the Coast and Geodetic Survey.
11. Of the Geological Survey.
12. Of the Naval Observatory."

The Columbian University is further authorized to state that certain libraries of eminent men of science connected with the scientific service of the Government, and some of which are exceptionally valuable, will be open to such students of the Graduate School as shall be qualified to use them for purposes of original research.

Educational Relations of the University.

The Columbian University has no organic connection with any literary or scientific department of the Government, but its relations with them all are close and intimate. The President of the United States, the Chief Justice of the United States, and the Attorney General are honorary Overseers. Two Associate Justices of the Supreme Court of the United States and two Associate Justices of the Supreme Court of the District of Columbia are active members of its Law Faculty. The Directors of the Bureau of Ethnology and the United States National Museum are trustees of the University. The Smithsonian Institution, the National Museum, the United States Naval Observatory, the Nautical Almanac Office, the Signal Corps of the United States Army, the Army Medical Museum, the Coast and Geodetic Survey, the United States Department of Education, the United States Weather Bureau, the Bureau of Chemistry, and the Bureau of Animal Industry of the Department of Agriculture, and the Bureau of the Mint are all represented in the Faculty of the University, and some of these departments have several representatives in its teaching body. The pathology of mental diseases is taught in the Medical School by one of the physicians in charge at the Government Hospital for the Insane. The National Academy of Sciences is represented both in the Board of Trustees and in the Faculty of the University. The President of the National Geographic Society is a member of its Board of Trustees. The President of the Society of Philosophical Inquiry is Professor of Philosophy in the University. The President of the Chemical Society is the Professor of Chemistry in the University. The President of the Columbian Engineering Society is the Professor of Civil Engineering in the Corcoran Scientific School and in the Graduate School of the University.

Other Scientific Facilities in Washington.

Washington is as much the scientific center as it is the legislative, executive, and judicial center of the United States. The great scientific operations of the Government have their bureaus of direction and administration at the National Capital, and with each of these bureaus a large corps of scientific workers is necessarily connected. For purposes of scientific stimulus and inquiry these workers are here gathered into societies, which hold public meetings for the reading and discussion of papers. The membership of the several societies comprises an aggregate of more than 1,200 persons. The Anthropological Society (Professor Lester

F. Ward, lecturer in The Columbian University, President), numbering, according to the last Scientific Directory, 225 active, 34 corresponding, and 23 honorary members, meets fortnightly or oftener, on Tuesday evenings. The Biological Society (General George M. Sternberg, U. S. A., President), with 166 active and 37 corresponding members, meets on alternate Saturdays, from October to May. The Chemical Society (Professor E. A. de Schweinitz, President), with 116 members, holds meetings on the second Thursday of each month. The Entomological Society (Mr. G. L. Marlatt, President), with 34 resident and 95 corresponding members, meets on the first Thursday of each month. The National Geographic Society (the Hon. Gardiner G. Hubbard, LL. D., President), with 1,316 members, meets every Friday. The Philosophical Society, (Professor F. W. Clarke, President), with 199 active and 66 non-resident members, holds its sessions on alternate Saturdays. The Mathematical Section of this Society (Professor J. Howard Gore, Chairman) meets on Wednesday, at irregular intervals, in the mathematical lecture-room of the Columbian University. The Society of Philosophical Inquiry (Professor J. MacBride Sterrett, President) meets every Tuesday afternoon during term time in the philosophical lecture-room of the Columbian University. The Columbian Engineering Society (Professor Francis R. Fava, Jr., C. E., President) meets on the first and the third Tuesday of each month in the Engineering Hall of the University. The Philological Association of the Columbian University meets, at the call of the Secretary, in the Latin recitation-room of the University. The Geological Society (Professor S. F. Emmons, President), comprising 151 active members and 37 corresponding members, meets on the second Wednesday of each month. The annual meetings of the Anthropological, Biological, Geographic, and Philosophical Societies, and occasionally their special meetings of public interest, are held in the main lecture hall of the Columbian University.

The National Academy of Sciences (Dr. Wolcott Gibbs, President) meets annually in Washington in April.

During the Christmas holidays the lecture halls of the University are occupied from year to year by the American Historical Association, the American Church History Association, the Modern Language Association of America, the American Folk-Lore Society, and the American Dialect Society for the purposes of their annual meetings. As many as sixteen national or international societies held their annual meetings in the University building during the year 1895-'96. These meetings are open to the students of the University.

THE UNIVERSITY CORPORATION.

THE REV. BENAIHAH L. WHITMAN, D. D.,
President of the Corporation.

HONORARY OVERSEERS.

THE PRESIDENT OF THE UNITED STATES.
THE CHIEF JUSTICE OF THE UNITED STATES.
THE ATTORNEY GENERAL OF THE UNITED STATES.

OVERSEERS.

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HENRY TAYLOR, Esq., Baltimore, Md.
EUGENE LEVERING, Esq., Baltimore, Md.
GEORGE O. MANNING, Esq., Baltimore, Md.
JAMES POLLARD, Esq., Baltimore, Md.
THE HON. WILLIAM L. WILSON, LL. D., Charlestown, W. Va.
THE REV. H. L. MOREHOUSE, D. D., New York City.
THE REV. FRANK M. ELLIS, D. D., Brooklyn, N. Y.
THE REV. THOMAS J. MORGAN, D. D., LL. D., New York City.
THE HON. M. M. PARKER, Washington, D. C.

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J. O. WILSON, Esq., 1439 Massachusetts Avenue, N. W.
THE HON. JOHN W. POWELL, LL. D., 910 M Street, N. W.
EDWARD M. GALLAUDET, LL. D., Kendall Green, D. C.
GARDINER G. HUBBARD, LL. D., 1328 Connecticut Avenue, N. W.
G. BROWN GOODE, LL. D., United States National Museum.
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THE HON. J. L. M. CURRY, LL. D., 1736 M Street, N. W.
CHARLES W. NEEDHAM, Esq., 1730 16th Street, N. W.
J. J. DARLINGTON, LL. D., 903 13th Street, N. W.
SAMUEL W. WOODWARD, Esq., Wyoming Avenue, N. W.
ROBERT H. MARTIN, Esq., 1719 S Street, N. W.
WILLIAM H. McKNEW, Esq., 1322 Q Street, N. W.

ROBERT H. MARTIN, *Secretary and Treasurer.*

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**Standing Committees of the Corporation for the Academic Year
1895-'96.**

Executive Committee.

MESSRS. GREENE, GALLAUDET, MARTIN, WOODWARD, and WHITMAN.

Committee on Nominations to Fill Vacancies in the Corporation.

MESSRS. STAKELY and WOODWARD.

Committee on the Columbian Academy.

MESSRS. WILSON, MASON, and WOODWARD.

Committee on the Columbian College.

MESSRS. STAKELY, GREENE, and DARLINGTON.

Committee on the Medical and Dental Schools.

MESSRS. NOYES, CURRY, and MARTIN.

Committee on the Law School.

MESSRS. MATTINGLY, CURRY, and NEEDHAM.

Committee on the Corcoran Scientific School.

MESSRS. POWELL, HUBBARD, and MASON.

Committee on the School of Graduate Studies.

MESSRS. GOODE and GALLAUDET.

Auditing Committee.

MESSRS. WILSON and NEEDHAM.

Committee on Increase of University Endowment.

MESSRS. LEVERING, GREENE, NOYES, ELLIS, and HUBBARD.

ALUMNI ASSOCIATION.

Officers, 1895-'96.

President:

CHARLES W. RICHARDSON, M. D.

Vice-Presidents:

REV. C. H. BUTLER, A. M.	M. M. RAMSEY, B. S., A. M.
JOHN W. CHAPPELL, B. S., M. D.	GEORGE W. HAY, D. D. S.
ALDIS B. BROWNE, LL. B.	JOHN M. REYNOLDS, A. M.

Secretary:

HOWARD L. HODGKINS, A. M., PH. D.

Treasurer:

JOHN B. LARNER, LL. B.

Executive Committee.

CHARLES W. RICHARDSON, M. D., *Chairman.*

H. L. HODGKINS, A. M., PH. D., *Secretary.*

C. W. APPLER, D. D. S.	REV. C. H. BUTLER, A. M.
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JOHN W. CHAPPELL, B. S., M. D.	W. RILEY DEEBLE, LL. B.
ALLAN DAVIS, B. S.	GEORGE W. HAY, D. D. S.
WILLIAM HAMILTON, A. M.	H. L. E. JOHNSON, M. D.
J. SCOTT JOHNSON, B. S., A. M.	JOHN B. LARNER, LL. B.
A. P. MONTAGUE, A. M., PH. D.	HENRY R. PYNE, A. M.
M. M. RAMSEY, B. S., A. M.	JOHN M. REYNOLDS, A. M.
M. M. RICHARDSON, A. M., LL. B.	CHARLES C. TUCKER, LL. M.
ALDIS B. BROWNE, LL. B.	

ENDOWMENTS.

The value of the University's property and endowments is estimated at about \$1,000,000. The endowments need an increase in every direction. New buildings, or an enlargement of existing structures, are required to accommodate the great increase of students in the Law, Medical, Dental, and Scientific Schools.

The proposed School of Comparative Jurisprudence calls for an endowment of \$250,000.

The following announcements, approved by the Board of Trustees, are extracted from the Annual Report of 1891:

1. Scholarships are rated at two thousand dollars each, and friends of the University are invited to found one or more of them.

2. Fellowships and Lectureships are rated at ten thousand dollars each, the proceeds of the funds to be devoted to endowing courses of lectures or to paying the expenses of meritorious students.

3. Professorships are rated at eighty thousand dollars each, and special "Schools" or "Departments" at two hundred thousand dollars, the income to be devoted to the support of professors or of such Schools, in accordance with the present organization of the Columbian College, the Corcoran Scientific School, and the School of Graduate Studies.

By an act of Congress approved March 3, 1873, the act to incorporate The Columbian College, in the District of Columbia, approved February 9, 1821, was so far modified as to provide, *inter alia*, "that said corporation shall be hereafter known and called by the name of The Columbian University, and in that name shall take, hold, and manage all the estate and property now belonging to said College, or that may hereafter be conveyed, devised, or bequeathed to said corporation by its original name."

FORMS OF BEQUESTS.

I give and bequeath to the Overseers and Trustees of The Columbian University the sum of — thousand dollars, to be applied, at their discretion, to the general purposes of the University.

I give and bequeath to the Overseers and Trustees of The Columbian University the sum of — thousand dollars, to be safely invested by them and called the — Scholarship fund. The interest of this fund shall be applied, at their discretion, to the encouragement of deserving students.

I give and bequeath to the Overseers and Trustees of The Columbian University the sum of — thousand dollars, to be safely invested by them as an endowment for the support of (the School of —), (a Professorship of —), (a Lectureship in the School of —), (a Fellowship in the School of —) in the University, &c.

It may be proper to explain that the term "School" has both a general and a special significance in the classifications of the Columbian University. Generally, it means a combination of several associated chairs, such as the "Law School," the "Medical School," the "School of Graduate Studies." Specially, it means any separate specialty which forms an integral part of these larger combinations, as the "School of English," the "School of Greek," the "School of Chemistry." Such specialties may sometimes require a large corps of associated professors and instructors. The flexibility of the system lends itself to organic growth by fostering an unlimited specialization of science or culture in connection with an unlimited combination of University studies. In the Corcoran Scientific School a separate specialty is called a "Department."

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OFFICERS OF INSTRUCTION AND GOVERNMENT.

ACADEMIC YEAR 1895-'96.

BENAIHA L. WHITMAN, A. M., D. D., *President of the University*,
2005 Massachusetts Avenue, N. W.

✓ CLEVELAND ABBE, PH. D., LL. D., *Professor of Meteorology*,
2017 I Street, N. W.

✓ CLEVELAND ABBE, JR., A. B., *Instructor in Physiography*,
2017 I Street, N. W.

✓ GEORGE N. ACKER, A. M., M. D., *Clinical Professor of Medicine*,
913 Sixteenth Street, N. W.

✓ LOUIS AMATEIS, *Professor of Fine Arts as Applied to Architecture*,
1717 Nineteenth Street, N. W.

✓ FRANK LLOYD AVERILL, C. E., *Instructor in Engineering Field-work*,
1479 Columbia Road, N. W.

✓ FRANK HAGAR BIGELOW, A. M., *Professor of Solar Physics*,
1625 Massachusetts Avenue, N. W.

✓ HENRY CARRINGTON BOLTON, PH. D., *Lecturer on History of Chemistry*,
Cosmos Club.

J. WESLEY BOVÉE, A. M., M. D., *Clinical Professor of Gynecology*,
1414 H Street, N. W.

✓ ANDREW COYLE BRADLEY, LL. B., *Lecturer on Criminal Law and on Criminal Pleading and Practice*,
2013 Q Street, N. W.

- ✓ DAVID J. BREWER, LL. D., *Professor of the Law of Corporations*,
1412 Massachusetts Avenue, N. W.
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1538 I Street, N. W.
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Clinical Professor of Ophthalmology*,
1207 M Street, N. W.
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407 T Street, N. W.
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1103 Thirteenth Street, N. W.
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Army Medical Museum.
- ✓ GEORGE VOSE CHANDLER, B. S., *Assistant in Mineralogy*,
213 C Street, S. E.
- MELVILLE CHURCH, *Professor of the Law of Patents*,
1608 Twentieth Street, N. W.
- JAMES ROBB CHURCH, M. D., *Assistant Demonstrator of Anatomy*,
1405 New York Avenue, N. W.
- ✓ THOMAS MAREAN CHATARD, PH. D., *Lecturer on Chemical Engineering*,
1714 Rhode Island Avenue, N. W.
- ✓ WILLIAM LATHIM CLARK, D. D. S., *Assistant Demonstrator of Dentistry*,
1315 M Street, N. W.
- ✓ FRANK WIGGLESWORTH CLARKE, B. S., *Professor of Mineral Chem-
istry*.
1612 Riggs Place, N. W.
- T. A. CLAYTOR, M. D., *Assistant to the Chair of the Theory and Practice
of Medicine*,
3 Dupont Circle, N. W.
- ✓ C. WYTHE COOK, M. D., *Clinical Professor of Medicine*,
3 Thomas Circle, N. W.

- ✓ WALTER S. COX, LL. D., *Professor of the Law of Real Property, of Contracts, of Crimes and Misdemeanors, and of Commercial Paper, and Dean of the Law School,*
1636 I Street, N. W.
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1537 Fifteenth Street, N. W.
- ✓ EDWARD Y. DAVIDSON, M. D., *Assistant Demonstrator of Anatomy,*
406 New Jersey Avenue, S. E.
- ✓ HENRY EDGAR DAVIS, LL. M., *Lecturer on the History of Law,*
1825 Jefferson Place, N. W.
- ✓ ROBERT B. DONALDSON, D. D. S., *Clinical Operator in Dentistry,*
1216 Sixteenth Street, N. W.
- ✓ WILLIAMS DONNALLY, D. D. S., *Clinical Operator in Dentistry,*
511 B Street, N. E.
- ✓ JAMES H. ECKELS, *Lecturer on Finance,*
1468 Rhode Island Avenue, N. W.
- ✓ GEORGE HENRY EMMOTT, LL. M., *Lecturer on the Civil Law,*
Johns Hopkins University, Baltimore, Md.
- ✓ EDWARD FARQUHAR, PH. D., *Professor of History and Assistant Professor of English,*
Cosmos Club.
- ✓ ELMER S. FARWELL, C. E., *Assistant Professor of Mechanical Engineering,*
1215 Rhode Island Avenue, N. W.
- ✓ FRANCIS RENATUS FAVA, JR., C. E., *Professor of Civil Engineering,*
917 Sixteenth Street, N. W.
- ✓ PETER FIREMAN, PH. D., *Instructor in Chemistry,*
939 New Hampshire Avenue, N. W.
- ✓ WORTHINGTON C. FORD, *Lecturer on Statistics,*
Metropolitan Club.
- ✓ FELIX FREYHOLD, C. E., *Assistant in Iron and Steel Construction,*
236 First Street, S. E.

- THOMAS J. T. FULLER, B. S., *Assistant in Architecture*,
Washington Heights, D. C.
- ✓ EDGAR FRISBY, A. M., *Professor of Astronomy*,
1607 Thirty-first Street, N. W.
- ALFREDO VICTOR GANA, PH. B., *Assistant in Free-hand Drawing*,
1317 K Street, N. W.
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Zoölogy,
National Museum.
- L. W. GLAZEBROOK, M. D., *Associate Professor of Clinical Medicine and*
Curator of the Museum,
1403 New York Avenue, N. W.
- ✓ JAMES HOWARD GORE, PH. D., *Professor of Mathematics and Geodesy*,
1521 New Hampshire Avenue, N. W.
- ✓ ADOLPHUS WASHINGTON GREELY, *Professor of Geography*,
1914 G Street, N. W.
- ROBERT E. L. HACKNEY, D. D. S., *Assistant Demonstrator of Dentistry*,
1232 Thirteenth Street, N. W.
- ✓ JONATHAN R. HAGAN, D. D. S., *Professor of Oral Surgery and Demon-*
strator in Charge of Infirmary,
612 Thirteenth Street, N. W.
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Professor of Civil Engineering.

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EDWARD FARQUHAR, PH. D.,
Instructor in History.

GEORGE N. HENNING, A. B.,
Instructor in French.

HON. WILLIAM L. WILSON, LL. D.,
Lecturer on American Economic Legislation.

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OTIS T. MASON, PH. D.,
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Professors HUNTINGTON, MUNROE, and STERRETT.

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Doctor SMITH and Professors STERRETT and SCHOENFELD.

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Professors LODGE, GORE, and HODGKINS.

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Professors GORE, HUNTINGTON, and MUNROE.

The College is open to students of both sexes.

The regular course of instruction is comprised in fourteen schools, as follows:

- I. SCHOOL OF ENGLISH: including English Philology, Anglo-Saxon, English Literature, Rhetoric, and Forensics.
- II. SCHOOL OF GREEK: including the Greek Language and Literature.
- III. SCHOOL OF LATIN: including the Latin Language and Literature.
- IV. SCHOOL OF FRENCH: including the French Language and Literature.
- V. SCHOOL OF SPANISH: including the Spanish Language and Literature.
- VI. SCHOOL OF GERMAN: including the German Language and Literature.
- VII. SCHOOL OF MATHEMATICS: including Pure Mathematics, Mechanics, and Astronomy.
- VIII. SCHOOL OF CHEMISTRY: General, Inorganic, and Organic Chemistry, Laboratory Practice, Qualitative and Quantitative Analysis.
- IX. SCHOOL OF PHYSICS.
- X. SCHOOL OF PHILOSOPHY.
- XI. SCHOOL OF POLITICAL PHILOSOPHY.
- XII. SCHOOL OF THE FINE ARTS.
- XIII. SCHOOL OF HISTORY: including Ancient, Mediæval, and Modern History.
- XIV. SCHOOL OF CIVIL ENGINEERING.

School of English.

DOCTOR SMITH.

1. The rhetorical principles of style and invention, with frequent written exercises and systematic criticism; later with study of the style of standard authors. Two hours a week.

Text-books: Genung's Practical Rhetoric and, as required, texts of selected authors.

2. Introductory general course in the history of English literature, followed by a study of the development of English prose style, from selected readings. One hour a week.

Text-books: Shaw's New History of English Literature and selected works as required.

3. English Literature from Chaucer to 1750. Lectures; readings for the class and in the class from representative authors, with study of literary movements and of the character of special periods, by investigations, reported in essay form. Two hours a week.

Texts of pieces of standard literature as required.

4. The origin, development, and present powers of the English language. One hour a week.

Text-book: Lounsbury's English Language.

5. English Literature from 1750 to the present time; sequel to course 3 and similarly conducted. Two hours a week, first term.

Selected texts.

6. American Literature, its development and its masterpieces. Readings, lectures, investigations. Two hours a week, second term.

Text-book: Beers's American Literature.

7. The History of English Poetry, lectures and investigations. Two hours a week, first term.

8. The English Poets of the Nineteenth Century. Readings, for appreciation and criticism. Two hours a week, second term.

9. Forensics, a practical course in argumentation, with preparation of briefs, oral and written arguments, study of forensic masterpieces. One hour a week.

Of the following elective courses the last two are open only to Juniors and Seniors:

10. The Anglo-Saxon Language and Literature. One hour a week.
Text-book: Bright's Anglo-Saxon Reader.
11. The History and Theory of the Drama, with lectures and readings of masterpieces. One hour a week, first term.
12. English and Scottish Ballads. One hour a week, second term.
Text-book: Gummere's Edition of the Ballads.
13. The Essay as a Literary Form. Readings and criticisms. One hour a week, first term.
14. Fiction, its History and Technique. Critical study of selected works. One hour a week, second term.

For Graduate Courses in English, see under head of "Graduate School."

School of Greek.

PROFESSOR HUNTINGTON.

In this School instruction is given in the Greek Language and Literature. The following books are used as text-books or for reference: Goodwin's and Hadley's Greek Grammars, Allinson's Greek Prose Composition, and Oman's History of Greece.

Lectures are given to the higher classes on Greek Literature.

Frequent exercises are assigned to the classes in rendering into Greek English translations from Greek authors.

Liddell and Scott's Greek Lexicon, Kühner's Greek Grammar, Goodwin's Greek Moods and Tenses, Findlay's or Long's or Ginn & Co.'s Classical Atlas, Smith's Greek and Roman Antiquities, and Grote's or Curtius's History of Greece are recommended to students in all the classes.

In this School portions of the following authors are studied:

1. Homer; Herodotus. Three hours a week for two terms.
2. Xenophon (*Memorabilia*); Lucian. Three hours a week for one term.
3. Isocrates and Lucian. Three hours a week for one term.

4. Sophocles, Euripides, Demosthenes, Lysias, and Thucydides. Three hours a week for two terms.

5. Plato (and Thucydides) and Æschylus. One hour a week for two terms.

For Graduate Courses in Greek, see under head of "Graduate School."

School of Latin.

PROFESSOR MONTAGUE.

In this School instruction is given in the Latin Language and Literature. Courses 7, 8, and 9 constitute the Graduate Department, in which those parts of the works of the authors named which are not usually read by undergraduates are assigned. In all the courses the study of the Latin Grammar, the writing of exercises, original and selected, and sight reading are required; in course 4, lectures are given upon Pedagogics; and to give practical illustration of the principles and suggestions thus presented, the students are from time to time called to the chair and required to conduct the recitation.

The following works are recommended: Grammars: Harkness's (text-book), Allen and Greenough's, Peters's and Madvig's; Lexicons: Harper's, White's English-Latin; Roman Literature: Cruttwell's, Wilkins's; Classical Atlas: Ginn & Co.'s or Kiepert's; Histories: Merivale's, Allen's, Myers's. In all the courses selections from the Latin authors for private reading and examination are prescribed and the study of Roman Literature is pursued.

COURSES.

1. Ovid, Livy, Horace (*Odes*). Three times a week for nine months.

2. Horace (*Satires* and *Epistles*), Cicero (*De Senectute* and *De Amicitia*), Pliny (*Letters*), Plautus (*Captivi*). Three times a week for four and a half months.

3. Cicero (*Letters*), Tacitus (*Germania*), Terence (*Andria*), Roman Antiquities. Three hours a week for four and a half months.

4. Tacitus (*Agricola* and *Annals I.*); Seneca, Juvenal; Critical Study of the History of Rome; annotations by the students upon the authors read. For practical instruction in this work, see course "Books and Book-making." Three hours a week for nine months.

5. Cicero (*De Oratore*); Quintilian; Essays upon Roman Literature. One hour a week for six months.

6. Cicero (*De Finibus*), Social Life of the Romans. One hour a week for five months.

For Graduate Courses in Latin, see under head of "Graduate School."

School of French.

Mr. HENNING.

1. The class is drilled in French pronunciation; grammar; progressive exercises in composition; dictation exercises.

Works read: *Histoire d'un Conscrit*; *Le Voyage de M. Perrichon*; *Les Trois Mousquetaires*. Three hours a week.

2. French syntax critically studied; dictation exercises; short original essays; conversation.

Works read: *L'Avare*; *Le Bourgeois Gentilhomme*; *Andromaque*; *La Canne de Jone*; *L'Abbé Constantin*; *Colomba*; parallel reading in Lacombe's *Histoire du Peuple Français*. Three hours a week.

3. Lectures on the history of the literature and the development of the language. Students in this course will be required to take Course II in the School of Political Philosophy.

Works read: *Bug-Jargal*; *Le Misanthrope*; *Les Précieuses Ridicules*; *Horace*; *Cinna*; *Le Barbier de Séville*; Nineteenth Century stories and plays. Three hours a week.

4. Philological studies based on original texts; thorough investigation in the origin of the laws of French syntax; *La Chanson de Roland*; *Ruy Blas*, *Hernani*, and Crane's *Romantisme Français* are also read. Two hours a week.

5. Lectures on the history of French Literature; systematic study by the class of one or more epochs; Comparative Literature. The authors read vary with the epochs chosen for study. Two hours a week.

During the first term opportunity is given for *Seminary* work of a strictly literary nature. One of the makers of French Literature is studied in his genesis, his essential characteristics, and his influence upon later writers in France and in other lands.

School of Spanish.

PROFESSOR SOTELDO.

Thorough instruction is given in the Castilian Language, with especial regard to a true and correct pronunciation and to the acquisition of the language in the shortest time possible.

Soteldo's "Spanish Grammar" and "Gramática Inglesa para les Españoles," composed especially to promote the reciprocal studies of the two predominant languages of the three Americas, will be used as text-books.

School of German.

PROFESSOR SCHOENFELD.

Instruction in this department has, as its primary object, a thorough knowledge of the Grammar and familiarity with the literature, with such practice in conversation as shall serve as a stimulus in the furtherance of this object.

German Grammar is studied during the first three years of the course, with its principles illustrated from the class readings and written exercises.

Text-books: Otis's and Thomas's Grammars.

1. Accurate training in elementary grammar (Otis); pronunciation and translation into German; beginning of conversation; readings from Van Daell's Preparatory German Reader, *Bilderbuch ohne Bilder*, *Immensee*, and some easy German poetry. Two hours a week.

2. German syntax; extensive translation into German; selected stories; beginning of classical reading and literature; elements of German history. Three hours a week.

3. Study of the principal difficulties of the language; idioms, synonyms (Sanders's *Hauptschwierigkeiten der deutschen Sprache*); German essays; literature of the second German Blüteperiode; German history; extensive reading from the classics. Three hours a week.

4. Elements of philology; survey of German literature; history of the old and new German Empire; lectures in German; extensive classical reading; introduction into the *Nibelungen Lied*. Three hours a week.

During the current academic year a class in Polish is conducted by Professor Schoenfeld. The elements of phonetics, grammar, prose, and poetry are taught.

For reference: "Higher Education in Russian, Austrian, and Prussian Poland."

School of Mathematics.

PROFESSOR GORE.

In this School instruction is offered in twelve courses.

1. Solid Geometry; Wells's Revised Geometry. Four hours a week for two months.
2. Algebra; Taylor's Algebra. Four hours a week for three months.
3. Plane Trigonometry; Wells's Trigonometry. Four hours a week for two months.
4. Spherical Trigonometry; Wells's Trigonometry. Three hours a week for two months.
5. Analytic Geometry; Nichols's Analytic Geometry. Three hours a week for four months.
6. Theory of Equations; Chapman's Theory of Equations. Three hours a week for two months.
7. Differential and Integral Calculus, Taylor. Three hours a week for six months.
8. Differential Equations, Gore. Three hours a week for two months.
9. Determinants, with applications, Weld. Two hours a week for one term.
10. Elliptic Functions, Baker. Two hours a week for one term.

In all of the above courses the text is supplemented by lectures and the principles emphasized by proposing for solution a large number of problems taken from the best European and American authorities.

While the disciplinary value of the study of mathematics is never lost sight of, the importance of its practical applications is insisted upon.

OPTIONAL COURSES.

11. Analytical Mechanics, Wood. One hour a week for two terms.
12. Theory of Probabilities, with Applications to Least Squares; Lectures, notes by Professor Gore. One hour a week for two terms.

For Graduate Courses in Mathematics, see under head of "Graduate School."

School of Chemistry.

PROFESSOR MUNROE.

1. General Inorganic and Organic Chemistry. Three hours a week for one year.

Barker's Elementary Chemistry; Remsen's Organic Chemistry.

2. Laboratory Practice. Three periods a week for one year.

Cooke's Laboratory Practice.

3. Qualitative Analysis.

Clowe's Qualitative Analysis.

4. Quantitative Analysis.

Thorpe's Quantitative Chemical Analysis.

For Graduate Courses in Chemistry, see under head of "Graduate School."

School of Physics.

PROFESSOR HODGKINS.

1. A recitation and lecture course on General Physics, embracing the fundamental principles of Mechanics, Sound, Heat, Light, and Electricity. The lectures will be illustrated by experiments and will be based on Gage's Principles of Physics. Three hours a week.

2. An advanced course on General Physics. This will be a theoretical and mathematical course and will require a thorough acquaintance with the phenomena of Physics. Barker's Physics will be used as the textbook. Three times a week.

3. A course in Laboratory Physics. This course is designed both to familiarize the student with the ordinary methods of exact experimentation and to extend the knowledge of the principles of Physics as gained in course 1. Lectures on physical theories and on laboratory methods will be given from time to time. Topics for study and discussion will be assigned to the whole class, and to different members of the class will be assigned subjects upon which they will prepare special reports. Three times a week.

4. A lecture and laboratory course in Magnetism and Electricity. Three times a week.

5. Light. A lecture and laboratory course, based on Preston's Theory of Light. Three times a week.

6. Heat. A lecture and laboratory course, based on Preston's Theory of Heat. Three times a week.

School of Philosophy.

PROFESSOR STERRETT.

The special studies in this School as directed by Professor STERRETT are pursued in the two upper classes.

1. The Junior Class (four hours a week) study Logic one hour a week. Jevons-Hill (*Elements of Logic*) is used as a text-book.

2. Three hours a week during the first term is given to the study of Psychology, the aim being to make this work a preparation for an intelligent study of Ethics and Philosophy. A careful study is made of the phenomena of intellect, feeling, and will, as organic processes of the man developing into conscious universal relations.

Dewey or Höfding used as hand-book, with lectures and themes.

The second half of the year (three hours a week) is given to the History of Philosophy. This is given in a course of lectures, concurrent readings and theses being required from the students. *Schwegler's Manual* is followed.

3. The Senior Class spends the first half of the year (four hours a week) in the study of the chief ethical theories. The members of the class are required to study the text of Aristotle, Kant, Mill, and Spencer, and to hand in well-prepared abstracts of their systems. The class-room work is devoted to a critical exposition of these and other theories by means of lectures and discussions. This is followed by a constructive theory of ethics. McKenzie's *Manual of Ethics*, Dewey's *Outlines of Ethics*, and Muirhead's *Elements of Ethics* are put into the hands of the students for use.

This is followed by a six weeks' course on the Philosophy of History.

An opportunity is given the students for *Seminary* work in either Ethics or Philosophy (two hours a week, in the afternoon), and for attendance on the course of papers and discussions before *The Society for Philosophical Inquiry*, meeting in the University every Tuesday afternoon, with program for the current year as shown in course of philosophical lectures open to the students, mention of which is made in this Catalogue.

COURSES, ALTERNATE AND ELECTIVE.

4. Experimental Psychology. Lectures, with study of the method, scope, and most general results of Experimental Psychology. First term, one hour a week.

5 (a). History of Ancient Philosophy. Second term, three hours a week. Lectures, with study of some of the text, and *Zeller's History*.

5 (b). History of Modern Philosophy. Second term, three hours a week, alternating with (5a) Lectures, with study of text of several systems and with reference to Falkenburg and Windelband.

6. Pedagogics. Lectures and text-book study of the History and Philosophy of Education. *Painter and Rosenkrans*. Elective. Second term, one hour a week.

7. The Metaphysics of Ethics. Study of Green's *Prolegomena to Ethics*. Second term, one hour a week.

Professor Sterrett offers this year a prize of \$45 to the member of the Senior Class who attains the highest standing in Ethics and prepares the best thesis on the topic of "The Doctrine of the End in Ethics."

For Graduate Courses in Philosophy, see under head of "Graduate School."

School of Political Philosophy.

PROFESSOR LODGE.

HON. W. L. WILSON.

MAJOR J. W. POWELL.

DOCTOR O. T. MASON.

GENERAL STATEMENT.

The studies in this School are designed to furnish the learner with an account of the genesis, development, and growth of political institutions. In all the branches pursued the method is comparative. Particular pains are taken to send students to the original sources of information as far as possible. To this end the class are constantly called upon to make use of the unequalled facilities of the Capital City for historical research. The archives of the Department of State are utilized to bring the student into direct contact with the original documents of American history.

COURSES.

1. The Development of the English Constitution; lectures; collateral reading; studies in Gardiner, Freeman, Stubbs, and Boutmy. Two hours a week for three months.

2. The History of French Political Institutions; lectures; studies in Guizot, Taine, and Sir James Stephens. Two hours a week for three months.

3. The Evolution of American Political Ideas; lectures; studies of our history in its sources; collateral reading in the standard American historians and in C. E. Stevens's *Sources of the Constitution*. Two hours a week for three months.

4. Political Economy; text-book, Perry; studies in socialism and communism, coöperation, and other current economic problems. Three hours a week for one year.

The Hon. W. L. Wilson will deliver a course of lectures upon the history of American economic legislation.

5. The History of Political Economy in Europe; lectures; studies in Blanqui. One hour a week for one term.

6. The Economic History of the United States; lectures; studies in Wells, Sumner, and Taussig. One hour a week for one term.

7. The Constitutional Law of the United States; text-books, Cooley and Bryce, with frequent studies in Elliot's Debates, the Federalist, Bancroft's Formation of the Constitution, Marshall, Story, Pomeroy, and Von Holst. Two hours a week for one year.

8. International Law; text-books, Gallaudet and Lawrence; lectures on the History of the Law of Nations; studies in Maine, Wheaton, and Calvo. One hour a week for one year.

9. The Theory of the State; text-books, Histoire de la Science Politique, Janet; History of the Science of Politics, Pollock; The Theory of the State, Bluntschli; studies in Montesquieu, Hobbes, Locke, and Woolsey. Two hours a week for one year.

10. The History of Civilization, a course of lectures on history, considered in its sources, methods of study, its principles of criticism as differently applied to unwritten and written records, and the successive stages of human progress measured along the lines of useful arts and of social institutions. These lectures begin with anthropological studies in primitive society, and are followed by a rapid survey of the

"civilizing stream" in its passage from Egypt through Assyria, Judea, Phœnicia, Persia, Greece, Rome, and Latin Christendom, down to the discovery of America. Two hours a week for one year.

This instruction is supplemented by two courses of lectures—one course by Major J. W. Powell, LL. D., on the Four Stages of Culture, and the other course by Doctor O. T. Mason, on Origins.

For Graduate Courses in Political Philosophy, see under head of "Graduate School."

Books and Bookmaking.

PROFESSOR GORE.

In this course instruction will be given in :

1. The collection and preservation of material preparatory to the writing of a book. Lecture by Professor Mason on "How to Write a Book."
2. The preparation of manuscripts.
3. The illustrating of books. Lecture by Mr. R. E. Earll.
4. Printing of books. Lecture by Mr. George H. Judd.
5. Proof-reading, with extensive practice.
6. Book-binding, including lettering and styles of binding. Illustrated lecture by Doctor Fletcher.
7. Cataloguing and classification. Lecture by Dr. T. N. Gill.
8. Bibliography.

Every effort will be made to utilize the exceptional advantages offered by the presence in Washington of specialists in the topics outlined above, and opportunities will be offered for practical work by members of the faculty engaged in literary work or who require of their students thorough investigation.

The private library of the professor is well equipped with bibliographic aids and illustrative material.

School of the Fine Arts.

PROFESSOR PARTRIDGE.

Announcements concerning the course and the lectures in this School will be made at the beginning of the next academic year.

School of History.

DOCTOR FARQUHAR.

In this School instruction is given in Ancient, Mediaeval, and Modern History, especial attention being paid to American History. Frequent lectures are given.

1. American History: Johnston, Fiske. One hour a week.
English History: Airy, Freeman, Greene. One hour a week.
 2. Ancient History: Ragozin, Baugsch, Oman, Grote, Liddell, Merivale, Mommsen. One hour a week.
 3. Mediaeval History: Gibbon, Hallam. Two hours a week.
 4. Modern History: Lectures and Essays, with references to standard histories. One hour a week.
- For Graduate Courses in History, see under head of "Graduate School."

School of Civil Engineering.

PROFESSOR ———.

A School of Civil Engineering has been established, in which instruction will be offered at the opening of the coming academic year. Among the subjects taught will be Drawing (Geometric and Free-hand), Descriptive Geometry, Mechanics, Graphic Statics, Surveying, Theory of Trusses, Planning and Construction of Bridges and Buildings, Design of Masonry Structures, Railroad Engineering, Hydraulics, Engineering Applied to Water Supply and Irrigation, Foundations, Design and Construction of Sewers, Harbor and River Improvements, and Materials used in Practical Engineering.

Time and Terms of Admission.

The College opens on the Wednesday following the last Sunday in September.

- I. Entrance examinations will be held on Friday and Saturday, June 5 and 6, and on Monday and Tuesday, September 28 and 29, 1896.

The following will be the schedule :

- First day: 9.00-10.30, English.
 10.30-12.00, Latin.
 12.30- 2.00, Greek ; Solid Geometry.
 2.00- 3.30, French.
- Second day: 9.00-10.30, German.
 10.30-12.00, Physics.
 12.30- 2.00, Algebra.
 2.00- 3.30, Plane Geometry.

II. Every applicant is required to submit testimonials of character and scholarship.

III. Candidates for admission to the course leading to the degree of Bachelor of Arts will be examined in English, Greek, Latin, French or German, Algebra, and Plane Geometry.

IV. Candidates for admission to the course leading to the degree of Bachelor of Science will be examined in English, Algebra, Plane Geometry, Solid Geometry, Physics, French, German or Latin.

V. Candidates for admission in English will be examined upon English Grammar, Rhetoric, and English and American Literature. They will be required to write upon topics relating to the following works: Shakespeare's *Midsummer Night's Dream* and **Merchant of Venice*, *Milton's *L'Allegro*, **Il Penseroso*, **Comus* and **Lycidas*, Defoe's *History of the Plague in London*, Scott's *Woodstock*, Macaulay's *Essay on Milton*, George Eliot's *Silas Marner*, Webster's **First Bunker Hill Oration*, Irving's *Tales of a Traveller*, Longfellow's *Evangeline*. Candidates should have read intelligently all these books, but with especial and critical thoroughness those which are marked with a star.

VI. Candidates for admission in Greek in its lowest class will be examined in Goodwin's or Hadley's Greek Grammar, Goodwin's Greek Reader or Xenophon's *Anabasis* (first four books), first three books of Homer's *Iliad*, Jones's Greek Prose Composition, and Myers's or Schmitz's History of Greece.

VII. Candidates for admission in Latin will be examined in Harkness's Latin Grammar, four books of Caesar's *Commentaries*, six of Cicero's *Orationes*, six books of the *Aeneid* of Vergil, Sallust's *Conspiracy of Catiline* (in part), Ovid's *Metamorphoses* (two books), Latin Composition, and Allen's, Myers's, or Pennell's History of Rome.

VIII. Candidates for admission in French will be examined in Edgren's French Grammar and in the first hundred pages of Rollins's French Reader.

IX. German; Essentials of German Grammar and easy German prose.

X. Candidates for admission to the School of Mathematics in its lowest class will be examined in Algebra (through Quadratic Equations) and in Plane Geometry; and in Solid Geometry for the degree of B. S.

XI. Candidates for admission to the courses leading to the degree of Bachelor of Science will be examined in Elementary Physics. Carhart and Chute's Physics, Avery's School Physics, Gage's Introduction to Physical Science, or Hall and Bergen's Text-book of Physics will give suitable preparation.

XII. Candidates may be excused from examination in some or all of the required subjects by presenting certificates from the Washington High School or from other Schools of good standing. Blank forms of such certificates may be obtained on application to the Dean.

XIII. Real equivalents in quality and amount will be received in place of the books or parts of the books prescribed for study preparatory to admission into the Schools of Greek, Latin, and Mathematics.

XIV. Candidates for admission to an advanced class in any School will be examined in all indispensable preliminary studies.

XV. Students wishing to pursue a special course in certain Schools will be admitted to the classes for which they may be found qualified, and every student pursuing such a course, if under the age of twenty-one years, is required to include in the selections not less than three distinct Schools, with at least twelve recitations or lectures a week. The choice of studies embraced in a special course must be made immediately upon the commencement of a term, and no student, without permission of the Faculty, may make a new choice of studies during any single term.

XVI. No student will be permitted to take more than eighteen recitation or laboratory periods a week, except by special permission of the Faculty.

Degrees.

The degree of Bachelor of Arts or Bachelor of Science is conferred on students who complete the appropriate course of study as outlined below.

Courses of Graduate study leading respectively to the degrees of Master of Arts and of Doctor of Philosophy are described under the head of the "Graduate School" in this catalogue.

COURSE OF STUDY LEADING TO THE DEGREE OF BACHELOR OF ARTS.

(The figures refer to the numbers of the courses in the several Schools of the College, as previously described.)

FRESHMAN YEAR.

English, 1, 2.	French, 1; or
Greek, 1.	German, 1.
Latin, 1.	Mathematics, 1, 2, 3.
	History, 1.

SOPHOMORE YEAR.

Greek, 2, 3.	English, 3.
Latin, 2, 3.	Mathematics, 4.
French, 2; or	Chemistry, 1; or
German, 2.	Physics, 1.
History, 2.	

JUNIOR YEAR.

Greek, 4; or	English, 4, 5, 6.
Latin, 4.	Philosophy, 1, 2.

Elective, 6 hours a week, of which 2 hours must be taken in the School of Political Philosophy.

SENIOR YEAR.

Greek, 5; or	English, 9.
Latin, 5 or 6.	Philosophy, 3.
Political Philosophy, 4.	History, 4.
Elective, 6 hours a week.	

COURSE OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE.

FRESHMAN YEAR.

English, 1, 2.

Mathematics, 1, 2, 3.

Chemistry, 1.

Physics, 1.

Elective, two languages, one of which must be French or German.

SOPHOMORE YEAR.

English, 3.

Chemistry, 1.

Mathematics, 4, 5, 6.

Physics, 2.

Elective, two languages, one of which must be French or German.

JUNIOR YEAR.

Mathematics, 7, 8.

Chemistry, 2; or

Philosophy, 1, 2.

Physics, 3.

Elective, 6 hours a week, which must include French or German.

SENIOR YEAR.

Chemistry, 3; or

Mathematics, 9, 10.

Physics, 4, 5, or 6.

Political Philosophy, 4.

Elective, 8 hours a week, which must include French or German.

Examinations.

At the end of each term, examinations of all the classes of all the Schools are held in the studies of that term.

The results of the Term Examinations are combined with those of the daily recitations and attendance of the student during the term, in order to ascertain his academic standing at the end of that term.

A student who fails to pass a satisfactory examination in any study at the end of a College term must present himself for re-examination in that study, and, in default of doing so, shall forfeit promotion with his class in that department.

All examinations which occur at the end of a College year are conducted in writing. Examinations for degrees are concluded three weeks before the date of the Annual Commencement, that time may be given to Professors for the inspection of written examination papers, and to

students for the preparation of parts to be performed on Commencement Day by the successful candidates, to whom public parts on that day may be assigned by the Faculty.

Examinations for prizes are concluded three weeks before the end of each scholastic year.

Annual Prizes.

Besides the honors and degrees conferred in the regular course, prizes are annually offered as rewards of special excellence in particular branches of study.

The Davis Prizes, for excellence in Elocution, founded by the Hon. Isaac Davis, LL. D., of Massachusetts, consist of two gold medals, annually awarded to the two successful competitors, in a public contest. These prizes are awarded by a committee selected by the Faculty for this purpose and are publicly delivered at the Annual Commencement.

The Staughton Prize, for excellence in the Latin Language and Literature, and the Elton Prize, for excellence in the Greek Language and Literature, founded by the Rev. Romeo Elton, D. D., of Exeter, England, consist of two gold medals, annually awarded to the best scholar in each of these languages.

The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL. D., consist of two gold medals, annually awarded to the two best scholars in Pure and Applied Mathematics.

Professor Munroe offers a gold medal to that student from the Washington High School who shall attain the highest mark in Chemistry among those passing the entrance examinations to the Columbian College.

Prizes in 1894-'95.

Staughton Prize, Mabel W. Baker, District of Columbia.

Ruggles Prize, George R. Davis, Maine.

Debater's Prize in the Enosinian Society, C. Le Roy Parker, New York.

Gore Prize in Parliamentary Law, E. A. Playter, Iowa.

Annual Commencement.

The Annual Commencement of the College is held on the second Wednesday in June.

Public parts are assigned on Commencement Day to such students only as have passed a satisfactory examination for the Degree of Bachelor of

Arts or of Science, except as before indicated, in the case of those who may be contestants for the prize of Elocution.

Philosophical, Classical, Scientific, Metaphysical, Ethical, Historical, or Literary Orations may be awarded to students who are eminent respectively in the corresponding Departments.

All the degrees of the College are publicly conferred on Commencement Day.

Prizes for special excellence in any Department are publicly delivered on the same day.

Public Worship.

Brief devotional exercises, which all students are expected to attend, are held daily in the College Chapel.

Library Hours.

The College Library is open every day from 9 o'clock a. m. to 1 o'clock p. m., and from 6 to 10 p. m., for study and inquiry, as well as for the distribution of books. A reading-room, provided with the leading reviews, periodicals, and newspapers, is maintained by the Alumni for the use of students and graduates.

The Libraries of Congress and of the various Departments of the Federal Government are accessible to students for research in any special line of studies.

During the present session a number of additions have been made to the Library, the most important of which was the munificent donation of Mrs. Catharine C. Emmerich, of Washington. This collection includes many valuable historical works, and books treating of early travels and discoveries in North and South America. This library—a memorial to her son, Lieutenant Emmerich, United States Navy—is especially welcome at this time, when the University is materially broadening the departments of history and political philosophy.

Literary Society.

The Enosinian Society, a literary association formed by the students of the College, meets weekly for the purpose of improvement in Debate and Composition.

Lectures.

Courses of Lectures in Literature, Art, and Science are organized every year by the authorities of the University. These lectures are open to all the classes, and to the public, on application being made for a ticket of admission. Lectures on Science, under the auspices of the Scientific Societies of Washington, whether delivered in the Lecture Hall of the United States National Museum or in the Hall of the University, are open to all students of the University.

Mention of lectures delivered during the present session is made elsewhere in this catalogue.

General Orders.

Every student on entering the College is understood by that act to pledge a voluntary acquiescence in the rules and regulations prescribed by the Board of Trustees and Overseers, and by the Faculty acting under the authority of the Board.

A report of the student's standing in all studies, including a record of absences from lectures, recitations, or other public exercises of the College, will be rendered periodically to parents or guardians.

The daily recitations of the College classes are brought, as far as practicable, into the early portion of the day. The advantages of attendance upon the debates of Congress and upon lectures before various associations are offered to students of the higher classes without detriment to proficiency in their studies.

College Expenses.

1. Admission Fee (paid but once, on entrance).....	\$10 00
2. Tuition for the year in three or more Schools.....	100 00
3. Tuition for the year in two Schools.....	70 00
4. Tuition for the year in one School.....	50 00
5. Laboratory work in Chemistry, 2 and 3 (material) each.....	10 00
6. Final Diploma Fee.....	10 00

These charges cover all expenses.

Bills are payable semi-annually, in advance.

Scholarships.

The Kendall Scholarship, founded by the late Hon. Amos Kendall and running for six years, two in the Academy and four in the College, is annually conferred on the best scholar in the Washington High School. Students on this foundation pay semi-annually, in advance, a fee of eight dollars.

A recent ordinance of the Corporation increases the number of scholarships by six, to be distributed annually among the High Schools of Washington, the successful candidates being determined by a competitive examination held on the first Saturday in June of each year at the University. Holders of these scholarships pay semi-annually, in advance, a fee of eight dollars.

The Carter Scholarships, founded by Mrs. Mary M. Carter in memory of her husband, Henry Harding Carter, the well-known civil engineer, consist of the income from five thousand dollars. This sum is to pay the tuition of worthy young men who need assistance while preparing for the civil engineering profession.

Rooms and Board.

Desirable rooms, convenient to the University buildings, are obtainable at \$5 to \$15 per month, and good board is offered at \$15 to \$20 per month. Lists of eligible boarding-houses will, upon request, be furnished by the Secretary and Treasurer of the University.

For further information concerning the Columbian College, application may be made to

ANDREW P. MONTAGUE, *Dean,*
The Columbian College, Washington, D. C.

SCHEDULE OF RECITATIONS FOR THE SESSION OF 1896-'97.

	HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
FRESHMAN.	9.15-10.10 10.10-11.05 11.05-12.00 12.15- 1.15	Mathematics. Physics. Chemistry. Political Philosophy, Elective. German. Spanish.	Mathematics. Greek; Physics. History. French. English.	Mathematics. English. Latin. Chemistry. German. Spanish.	Latin. Greek; Physics. Chemistry. English. German.	Mathematics. Latin. French. Greek.
SOPHOMORE.	9.15-10.10 10.10-11.05 11.05-12.00 12.15- 1.15 1.15- 2.15 2.15- 3.15	Latin. Physics (A. B.). Chemistry. English. Greek; Physics. History, Elective.	English. Physics (A. B.). Mathematics. German. French. Spanish.	Latin. Mathematics. English. Chemistry. French. Political Philosophy, Elective.	German. Physics (A. B.). Chemistry. Greek; Physics. History. Spanish.	French. Greek; Physics. Latin. Mathematics. German.
JUNIOR.	9.15-10.10 10.10-11.05 11.05-12.00 12.15- 1.15 1.15- 2.15 2.15- 3.15	German. Latin. Philosophy. History. English.	Philosophy. Political Philosophy. French. Greek; Physics. Latin, Elective; En- glish, Elective.	German. Latin. Greek; Physics. Mathematics. Political Philosophy. French.	English. Latin. Philosophy. French. History; English, Elective.	Political Philosophy. German. Mathematics. Philosophy. Greek; Physics. History, Elective; Latin, Elective.
SENIOR.	9.15-10.10 10.10-11.05 11.05-12.00 12.15- 1.15 1.15- 2.15 2.15- 3.15 3.15- 4.15	Philosophy. Political Philosophy. Latin. Mathematics. Political Philosophy. Political Philosophy; Lab. Chemistry. German, El.	Political Philosophy. Philosophy. German. English; Lab. Phys. History. French. Political Philosophy, Elective.	Political Philosophy. Greek; Physics. Political Philosophy. French. English. Philosophy, El; Lab. Chemistry. Mathematics, El; En- glish, El.	Philosophy. Political Philosophy. Mathematics. Political Philosophy. French. Political Philos., El.; Lab. Chemistry. History, El; French, El.	Latin. Philosophy. German; Lab. Phys. English. History. German.

Students.

CANDIDATES FOR DEGREES.

Fauntleroy Barnes	D. C.	600 Twentieth Street, N. W.
J. William Beatty	Kan.	631 Second Street, N. W.
Helen Ruth Biddis	Pa.	Eckington, D. C.
Florence Lorraine Bingham	D. C.	Garrett Park, Md.
Frank Lee Biscoe	D. C.	813 Twenty-first Street, N. W.
Florence E. Bowman	Pa.	Anacostia, D. C.
Elise Bradford	R. I.	1522 P Street, N. W.
Edmund K. Broadus	Va.	915 French Street, N. W.
Bronson C. Buxton	Va.	3102 N Street, N. W.
Mary K. Chapin	D. C.	417 Q Street, N. W.
Reed Paige Clark	N. H.	1424 Eleventh Street, N. W.
Thatcher Clark	N. Y.	1628 Riggs Place, N. W.
Paul Cockerille	D. C.	1338 New York Avenue, N. W.
De Witt Clinton Croissant	D. C.	821 North Carolina Avenue, S. E.
E. Kendall Cutter	D. C.	1522 K Street, N. W.
Zelma Davis	Cal.	1203 Rhode Island Avenue, N. W.
Elliott J. Dent	Pa.	Springland, D. C.
Taylor B. Dixon	D. C.	1421 Twenty-ninth Street, N. W.
Harry Hampton Donnally	Va.	511 B Street, N. E.
Lida Draper	D. C.	1729 New Jersey Avenue, N. W.
William Lowry Farnham	D. C.	1103 M Street, N. W.
Joseph Finckel	D. C.	1319 S Street, N. W.
Donald C. Fugitt	D. C.	1212 K Street, N. W.
Anna E. Fussell	N. J.	2218 Washington Circle, N. W.
George W. Gordon	D. C.	Kendall Green, D. C.
G. Emery Green	Mass.	1123 Seventeenth Street, N. W.
Harry S. Greene	Vt.	1320 Q Street, N. W.
Mortimer B. Hall	D. C.	1444 N Street, N. W.
Quirof Harlan	Md.	1229 Tenth Street, S. E.
Rolvix Harlan	Md.	1229 Tenth Street, S. E.
Mary Squire Hinman	Ohio.	30 Sixth Street, S. E.
G. Carroll Hoover	Pa.	63 R Street, N. W.
Robert L. Jenkins	Tenn.	1507 Vermont Avenue, N. W.
H. May Johnson	D. C.	5 Grant Place, N. W.
Fred. Cragin Jones	D. C.	946 F Street, S. W.
Mary Isabel Kelly	D. C.	228 A Street, S. E.

Anna Campbell Kelton.....Cal.....1841 R Street, N. W.
 Eleanor Annie Lamson.....D. C....Anacostia, D. C.
 W. D. McCurdy.....Md.....Anacostia, D. C.
 Ruth McGowan.....Mich....1443 Staughton Street, N. W.
 Elsie Madeleine McKelden....D. C....724 Fifth Street, N. E.
 Marie Christie McKelden.....D. C....724 Fifth Street, N. E.
 Harry C. Macatee.....Va.....3 Thomas Circle, N. W.
 Russell B. Main.....Mass....2009 Massachusetts Avenue, N. W.
 William S. Manning.....W. Va..2002 Fourteenth Street, N. W.
 Selma M. Mason.....Va.....1706 F Street, N. W.
 Gertrude E. Metcalf.....Me....1631 Marion Street, N. W.
 William Mitchell.....Wis....32 B Street, N. E.
 Henrietta Camille Morrison...D. C....1009 Massachusetts Avenue, N. E.
 Frances C. Newlands.....Nev....Chevy Chase, Md.
 Lillian Pace.....Va.....1208½ N Street, N. W.
 William E. Parson.....D. C....309 New Jersey Avenue, S. E.
 Conrad M. Patten.....D. C....3033 P Street, N. W.
 Stanton C. Peelle.....D. C....The Concord.
 Edward Alfred Playter.....Iowa...1921 Sixth Street, N. W.
 William Thompson Pollard....Va.....Alexandria, Va.
 Elliott Coues Prentiss.....D. C....1322 Yale Street, N. W.
 Preston B. Ray.....Md....Forest Glen, Md.
 G. Irving Raybold.....D. C....820 North Carolina Avenue, S. E.
 Charles Kilbourne Robinson...N. J....1607 S. Street, N. W.
 Samuel H. Rogers.....Va.....721 Eighth Street, N. W.
 Grace Isabella Ross.....Vt.....77 L Street, N. W.
 Roger Shaw.....Md....Rockville, Md.
 W. Morgan Shuster.....D. C....1408 Fifteenth Street, N. W.
 H. H. D. Sterrett.....D. C....Springland, D. C.
 Robert Sterrett.....D. C....Springland, D. C.
 George E. T. Stevenson.....N. Y....Anacostia, D. C.
 Hugh T. Stevenson.....N. Y....Anacostia, D. C.
 C. G. Storm.....Wis....9 K Street, N. E.
 Albert R. Stuart.....S. C....1226 Fifteenth Street, N. W.
 James B. Stubbs.....238 New Jersey Avenue, N. W.
 H. Worthington Talbott.....Md....Rockville, Md.
 Joseph G. Tyssowski.....D. C....1431 Rhode Island Avenue, N. W.
 Wilbur W. Underwood.....D. C....1107 N Street, N. W.
 Clara Mary Upton.....D. C....406 Spruce Street, N. W.
 Elinor Wilson.....D. C....1439 Massachusetts Avenue, N. W.

Special Students.

Hortense Alexander.....	Texas	1217 M Street, N. W.
J. Henry Altschu.....	D. C.	1334 G Street, N. W.
Robert S. Barrett, Jr.....	Va.	2213 Washington Circle, N. W.
Charles M. Beall.....	D. C.	1626 Fifteenth Street, N. W.
Edward Abbot Beard.....	D. C.	1305 N Street, N. W.
William Henry Beard.....	D. C.	1305 N Street, N. W.
Lorenzo S. Brown, Jr.....	Va.	1627 Q Street, N. W.
Ralph Davol.....		918 Fifteenth Street, N. W.
G. W. Grandin.....		930 Sixteenth Street, N. W.
Jessie May Harwood.....	Mass.	933 French Street, N. W.
Ralph W. Hills.....	Ohio	1345 Vermont Avenue, N. W.
Charles G. Hoffman.....	D. C.	222 E Street, N. W.
Frances M. Jacobs.....	D. C.	1327 Eleventh Street, N. W.
Caroline L. McCullough.....		1714 I Street, N. W.
Sandol H. Millikin.....	Tenn.	1012 Twelfth Street, N. W.
Janet Newlands.....	Nev.	Chevy Chase, Md.
Katie Quinn.....	Ohio	2422 K Street, N. W.
Sue Fite Ramsey.....	Miss.	432 Sixth Street, N. E.
Georgie Sanderlin.....	N. C.	1008 N Street, N. W.
Fred. A. L. Schade.....	Va.	24 Grant Place, N. W.
O. C. Stine.....	Ill.	213 C Street, N. W.
Dennis Walker.....	D. C.	418 B Street, N. E.

THE CORCORAN SCIENTIFIC SCHOOL.

The Faculty.

THE REV. BENAIAH L. WHITMAN, D. D.,
President.

CHARLES E. MUNROE, PH. D.,
Dean and Professor of Chemistry.

THE REV. SAMUEL M. SHUTE, D. D.,
Emeritus Professor of English.

ANDREW P. MONTAGUE, PH. D.,
Professor of Latin.

JAMES H. GORE, PH. D.,
Professor of Geodesy.

HOWARD L. HODGKINS, PH. D.,
Professor of Mathematics and Secretary of the Faculty.

LEE DAVIS LODGE, PH. D.,
Professor of Philosophy and French.

WILLIAM C. WINLOCK, A. B.,
Professor of Astronomy.

FRANCIS R. FAVA, JR., C. E.,
Professor of Civil Engineering.

THEODORE N. GILL, PH. D.,
Professor of Zoölogy.

CLEVELAND ABBE, A. M.,
Professor of Meteorology.

HERMANN SCHOENFELD, PH. D.,
Professor of German.

HARRY KING, LL. B.,

Professor of Drawing.

GEORGE P. MERRILL, PH. D.,
Professor of Geology and Mineralogy.

ADOLPHUS W. GREELY,
Professor of Geography.

JOSIAH PIERCE, JR., M. A.,
Professor of Drawing and Applied Geometry.

ANDREW F. CRAVEN, PH. D.,
Professor of Economics.

LOUIS AMATEIS,
Professor of Fine Arts as Applied to Architecture.

EDWARD FARQUHAR, PH. D.,
Professor of History.

FRANK A. WOLFF, PH. D.,
Professor of Physics.

F. LAMSON-SCRIBNER, B. S.,
Professor of Botany.

GEORGE J. SMITH, PH. D.,
Professor of English.

J. C. HORNBLOWER,
Professor of Architecture.

HANS ZOPKE,
Professor of Mechanical Engineering.

C. F. MARVIN, M. E.,
Associate Professor of Meteorology.

ELMER S. FARWELL, C. E.,
Associate Professor of Mechanical Engineering.

HENRY SIMPSON,
Associate Professor of Architecture.

Instructors and Assistants.

FRANK L. AVERILL, C. E.,
Instructor in Engineering Field-work.

HENRY R. PYNE, A. M.,
Instructor in Latin and Greek.

MARATHON M. RAMSEY, A. M.,
Instructor in Romance Languages.

HERBERT L. RICE, M. S.,
Instructor in Astronomy.

PETER FIREMAN, PH. D.,
Instructor in Chemistry.

EMIL H. MEYER,
Instructor in Free-hand Drawing.

T. W. STANTON, A. M.,
Instructor in Paleontology and Stratigraphical Geology.

CLEVELAND ABBE, JR., A. B.,
Instructor in Physiography.

HARRY F. NEWCOMB, LL. M.,
Instructor in Statistics.

CABELL WHITEHEAD, B. M.,
Assistant in Assaying.

FELIX FREYHOLD, C. E.,
Assistant in Iron and Steel Construction.

ERNEST L. THURSTON, C. E.,
Assistant in Drawing.

EDWARD A. MUIR,
Assistant in Machine Drawing.

JOSEPH S. MILLS, A. M.,
Assistant in Qualitative Analysis.

POWHATAN W. ROBERTSON,
Assistant in Accounting.

WILLIAM P. HAY, A. M.,
Assistant in Zoölogy.

CHARLES T. SEMPERS, A. M.,
Assistant in English and Director of University Extension.

H. GRANT HODGKINS, A. B.,
Assistant in Mathematics.

CHARLES E. McNABB, LL. M.,
Assistant in Business Law.

MINOTT E. PORTER, B. S.,
Assistant in Geography.

A. KLACKRING,
Assistant in Topographic Drawing.

THOMAS H. KEARNEY,
Assistant in Botany.

THOMAS J. T. FULLER, B. S.,
Assistant in Architecture.

ALFREDO V. GANO,
Assistant in Free-hand Drawing.

Lecturers.

OTIS T. MASON, PH. D.,
Lecturer on Anthropology.

H. CARRINGTON BOLTON, PH. D.,
Lecturer on History of Chemistry.

THOMAS M. CHATARD, PH. D.,
Lecturer on Chemical Engineering.

COLUMBIAN UNIVERSITY.

WORTHINGTON C. FORD,

Lecturer on Statistics.

GLENN BROWN,

Lecturer on Sanitary Engineering.

HON. JAMES H. ECKELS,

Lecturer on Finance.

CARROLL D. WRIGHT, LL. D.,

Lecturer on Social Statistics.

LESTER F. WARD, A. M.,

Lecturer on Sociology.

Standing Committees of the Faculty.*Committee on Advanced Standing.*

Professors MUNROE, HODGKINS, and LODGE.

Committee on Registration of Students.

Professors MUNROE and HODGKINS.

Committee on Library.

Professors FAVA, FARQUHAR, and GORE.

Committee on Examination Schedule.

Professors FAVA, LODGE, and HODGKINS.

Committee on Catalogue.

Professors MUNROE and HODGKINS.

The School of Science established by the Trustees and Overseers of The Columbian University as a part of their University system of education is called by the name of W. W. CORCORAN in grateful recollection of his many benefactions to the University.

The exercises of the School begin the Wednesday following the last Sunday in September (for 1896, September 30) and are held in the University Building (southeast corner of Fifteenth and H streets N. W.), which has been constructed with special reference to the wants of the School.

Properly qualified persons of either sex are admitted as students in the Full Courses of study leading to the degree of Bachelor of Science, as described below, or they may take special Courses in any of the Departments.

Candidates for admission to the First Year Course should be prepared in English Grammar, Rhetoric, French Grammar, American History, Algebra through Quadratic Equations, Plane Geometry, Elementary Chemistry, Elementary Physics, and the elements of Free-hand and Mechanical Drawing.

The following Courses of Study leading to the degree of Bachelor of Science are arranged to be completed in four years, but students otherwise engaged are granted a longer period in which to fulfill the requirements:

COURSES OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE.

FIRST YEAR.*

(Common to all Courses.)

- | | |
|--|---------------------------|
| †(3) Chemistry, 1, 6. | (1) Fine Arts, 1. |
| General Chemistry; History of Chemistry. | Free-hand Drawing. |
| (2) Drawing, 1. | (2) Romance Languages, 1. |
| Mechanical and Geometrical Drawing. | French. |
| (3) English, 1. | (5) Mathematics, 1, 2. |
| Rhetoric; English Literature. | Algebra; Geometry. |

*Students in Course XII will take Course 2 in Fine Arts (Architectural Drawing) in addition to the above.

†The numbers in parentheses give the number of hours or periods per week; the numbers following the subjects refer to the special topics in the various Departments of the Corcoran Scientific School.

COURSE I—GENERAL.

SECOND YEAR.

- | | |
|----------------------------|-------------------------|
| (2) German, 1. | (1) Mineralogy, 1. |
| (3) Mathematics, 3, 4. | Descriptive Mineralogy. |
| Trigonometry; Analytic Ge- | (3) Physics, 1. |
| ometry. | General Physics. |
- Elective, eight hours a week.

THIRD YEAR.

- | | |
|---------------------|----------------|
| (2) Geology, 1. | (2) German, 2. |
| Systematic Geology. | |
- Elective, thirteen hours a week.

FOURTH YEAR.

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|--------------------|--------------------|
| (2) Astronomy, 1. | (2) Philosophy, 3. |
| General Astronomy. | Logic. |
- Elective, thirteen hours a week.

COURSE II—IN CIVIL ENGINEERING.

SECOND YEAR.

- | | |
|--------------------------------|-----------------------------------|
| (4) Applied Mathematics, 2, 5. | (3) Mathematics, 3, 4. |
| Descriptive Geometry and | Trigonometry; Analytic Ge- |
| Mechanics. | ometry. |
| (4) Drawing, 2, 3. | (8) Mechanical Engineering, 4, 5. |
| Topographic. | Machine Drawing and Con- |
| (1) Engineering, 1, 15. | struction of Machinery. |
| Surveying and Building Con- | (1) Mineralogy, 1. |
| struction. | Descriptive Mineralogy. |
| (1) Fine Arts, 2. | (3) Physics, 1. |
| Architectural Drawing. | General Physics. |
| (2) German, 1. | |

THIRD YEAR.

- | | |
|---|---|
| (3) Applied Mathematics, 6, 9.
Mechanics and Graphical
Statics. | (1) Fine Arts, 3.
Architectural Drawing. |
| (1) Astronomy, 2.
Practical. | (2) Geology, 1.
Systematic Geology. |
| (2) Economics, 1.
Accounting. | (2) German, 2. |
| | (4) Engineering, 3, 4, 5, 13, 14. |
| | (2) Mathematics, 5.
Calculus. |

FOURTH YEAR.

- | | |
|---|---|
| (4) Applied Mathematics, 7, 8, 10.
Hydrodynamics; Strength
of Materials; Mechanics
of Machinery. | (1) Geodesy (1 term). |
| (2) Astronomy, 1.
General Astronomy. | (2) Mathematics, 6, 7.
Differential Equations; Least
Squares. |
| (2) Economics, 2.
Business Law. | (2) Philosophy, 3.
Logic. |
| (4) Engineering, 7, 9, 10, 13, 14.
Structures and Materials of
Engineering. | (3) Physics, 9, 12.
Laboratory and Inspection. |

COURSE III—IN ELECTRICAL ENGINEERING.

SECOND YEAR.

- | | |
|---|---|
| (2) Applied Mathematics, 2.
Descriptive Geometry. | (5) Mechanical Engineering, 4, 9.
Machine Drawing and Ma-
chine Problems. |
| (2) German, 1. | (1) Mineralogy, 1.
Descriptive Mineralogy. |
| (3) Mathematics, 3, 4.
Trigonometry; Analytic Ge-
ometry. | (6) Physics, 1, 9.
General Physics; Physical
Laboratory. |

THIRD YEAR.

- | | |
|---|---|
| (3) Applied Mathematics, 6, 9.
Mechanics and Graphical
Statics. | (2) Mathematics, 5.
Calculus. |
| (2) Geology, 1.
Systematic Geology. | (4) Mechanical Engineering, 5.
Elements of Machines. |
| (2) German, 2. | (7) Physics, 2, 3, 10, 13.
Electricity; Laboratory. |

FOURTH YEAR.

- | | |
|--|--|
| (3) Applied Mathematics, 7, 8.
Hydrodynamics; Strength
of Materials. | (4) Mechanical Engineering, 6.
Designing. |
| (2) Astronomy, 1.
General Astronomy. | (2) Philosophy, 3.
Logic. |
| (1) Chemistry.
Metallurgy of Iron. | (5½) Physics, 4, 5, 11.
Theory and Application of
Electricity; Thermodynam-
ics; Advanced Laboratory. |

COURSE IV—IN MECHANICAL ENGINEERING.

SECOND YEAR.

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|--|---|
| (2) Applied Mathematics, 2.
Descriptive Geometry. | (2) Mineralogy, 1.
Descriptive. |
| (2) German, 1. | (3) Physics, 1.
General. |
| (3) Mathematics, 3, 4.
Trigonometry; Analytic Ge-
ometry. | (3) Physical or Chemical Labora-
tory. |
| (5) Mechanical Engineering, 4, 9.
Machine Drawing; Machine
Problems. | |

THIRD YEAR.

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|--|--|
| (3) Applied Mathematics, 6, 9.
Applied Mechanics; Graph-
ical Statics. | (2) German, 2. |
| (3) Astronomy, 1.
Descriptive. | (2) Mathematics, 5.
Calculus. |
| (2) Geology, 1.
Systematic. | (4) Mechanical Engineering, 4.
Machine Drawing. |
| | (2) Philosophy, 3.
Logic. |

FOURTH YEAR.

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|--|---|
| (3) Applied Mathematics; 7, 8.
Hydraulics; Strength of Materials. | (14) Mechanical Engineering, 5, 6,
7, 8.
Elements of Machines; Hoisting Machinery; Designing; Inspection. |
| (1) Chemistry.
Metallurgy of Iron. | |

COURSE V—IN CHEMISTRY (A).

SECOND YEAR.

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|--|---|
| (2) Applied Mathematics, 2.
Descriptive Geometry. | (1) Mechanical Engineering.
Elements of Machine Drawing. |
| (5) Chemistry, 10.
Laboratory; General Principles. | (1) Mineralogy, 1.
Descriptive Mineralogy. |
| (2) German, 1. | (3) Physics, 1.
General Physics. |
| (3) Mathematics, 3, 4.
Trigonometry; Analytic Geometry. | |

THIRD YEAR.

- | | |
|---|--|
| (12) Chemistry, 2, 6.
Quantitative Analysis. | (2) Geology, 1.
Systematic Geology. |
| | (2) German, 2. |

FOURTH YEAR.

- | | |
|---|---|
| (15) Chemistry, 3, 5, 7.
Quantitative Analysis; Assaying; Organic Chemistry. | (2) Astronomy, 1.
General Astronomy. |
| | (2) Philosophy, 3.
Logic. |

COURSE VI—IN CHEMISTRY (B).

SECOND YEAR.

- | | |
|---|--|
| (2) Applied Mathematics, 2.
Descriptive Geometry. | (3) Mathematics, 3, 4.
Trigonometry; Analytic Geometry. |
| (5) Chemistry, 10.
Laboratory; General Principles. | (1) Mineralogy, 1.
Descriptive Mineralogy. |
| (2) German, 1. | (3) Physics, 1.
General Physics. |

THIRD YEAR.

- | | |
|--|--|
| (10) Chemistry, 2, 6.
Qualitative Analysis. | (2) Geology, 1.
Systematic Geology. |
| (2) Mathematics, 5.
Calculus. | (2) German, 2. |
| | (3) Physics, 2, 3.
Electricity. |

FOURTH YEAR.

- | | |
|---|--|
| (2) Astronomy, 1.
General Astronomy. | (2) Mathematics, 6, 7.
Differentials and Least Squares. |
| (12) Chemistry, 3, 7.
Quantitative Analysis and Organic Chemistry. | (2) Philosophy, 3.
Logic. |

COURSE VII—IN MATHEMATICS.

SECOND YEAR.

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|--|--|
| (2) Applied Mathematics, 2.
Descriptive Geometry. | (2) German, 1. |
| (2) Civil Engineering, 1, 2.
Surveying. | (3) Mathematics, 3, 4.
Trigonometry; Analytic Geometry. |
| (2) Drawing, 2.
Topographical Drawing. | (1) Mineralogy, 1.
Descriptive Mineralogy. |
| (2) Romance Languages, 2.
French. | (3) Physics, 1.
General Physics. |

THIRD YEAR.

- | | |
|--|--|
| (2) Applied Mathematics, 6.
Analytical Mechanics. | (2) German, 2. |
| (2) Astronomy, 1.
General Astronomy. | (4) Mathematics, 5, 8, 9, 10.
Calculus; Determinants; Quaternions; Analytic Geometry of Three Dimensions. |
| (2) Romance Languages, 3.
French. | (3) Physics, 9.
Laboratory Physics. |
| (2) Geology, 1.
Systematic Geology. | |

FOURTH YEAR.

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|--------------------------------|--------------------------------|
| (3) Applied Mathematics, 7, 8. | (4) Mathematics, 6, 7, 11, 12. |
| (3) Astronomy, 2, 3. | Differential Equations; |
| (2) English, 1. | Least Squares; Theory of |
| American and English His- | Equations; History of |
| tory. | Mathematics. |
| (4) Geodesy, 1. | (2) Philosophy, 3. |
| (2) German, 2. | Logic. |
| | (2) Physics, 2, 4. |
| | Mathematical Theory of Elec- |
| | tricity. |

COURSE VIII—IN METEOROLOGY.

SECOND YEAR.

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|--------------------------------|----------------------------|
| (4) Applied Mathematics, 2, 5. | (3) Mathematics, 3, 4. |
| Descriptive Geometry; Me- | Trigonometry; Analytic Ge- |
| chanics. | ometry. |
| (5) Chemistry, 10. | (2) Meteorology, 1. |
| Laboratory, General Princi- | Observational. |
| ples. | (1) Mineralogy, 1. |
| (2) German, 1. | Descriptive Mineralogy. |
| | (3) Physics, 1. |
| | General Physics. |

THIRD YEAR.

- | | |
|-----------------------------|---------------------|
| (2) Applied Mathematics, 6. | (2) German, 2. |
| Analytical and Applied Me- | (2) Mathematics, 5. |
| chanics. | Calculus. |
| (1) Astronomy, 2. | (2) Meteorology, 2. |
| Practical. | Climatology. |
| (2) Botany, 1. | (3) Physics, 9. |
| Systematic. | Laboratory. |
| (2) Geology, 1. | |
| Systematic Geology. | |

FOURTH YEAR.

- | | |
|--|---|
| (1) Applied Mathematics, 9.
Hydrodynamics. | (2) Mathematics, 6, 7.
Differential Equations; Least
Squares. |
| (2) Astronomy, 1.
General and Spherical As-
tronomy. | (2) Meteorology, 3.
Special Topics. |
| (1) Geodesy.
Projections. | (2) Philosophy, 3.
Logic. |
| | (3) Physics, 10.
Laboratory. |

COURSE IX—IN GEOGRAPHY.

SECOND YEAR.

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|--|---|
| (2) Applied Mathematics, 2.
Descriptive Geometry. | (2) Geography, 1.
Physical. |
| (5) Chemistry, 10.
Laboratory; General Prin-
ciples. | (3) Mathematics, 3, 4.
Trigonometry; Analytic Ge-
ometry. |
| (2) Drawing, 2.
Topographic. | (1) Mineralogy, 1.
Descriptive Mineralogy. |
| (2) German, 1. | (3) Physics, 1.
General Physics. |

THIRD YEAR.

- | | |
|---|------------------------------------|
| (1) Astronomy, 2.
Practical. | (2) Geography, 2.
Economic. |
| (2) Botany, 1.
Systematic. | (2) German, 2. |
| (4) Engineering, 3, 4, 6.
Surveying. | (2) Mathematics, 5.
Calculus. |
| (2) Geology, 1.
Systematic Geology. | (2) Physics, 2, 6.
Electricity. |

FOURTH YEAR.

- | | |
|-----------------------------|----------------------------|
| (1) Applied Mathematics, 7. | (4) Engineering, 10. |
| Hydrodynamics and Hy- | City. |
| draulics. | (1) Geodesy. |
| (2) Astronomy, 1. | (2) Mathematics, 6, 7. |
| General Astronomy. | Differential Equations and |
| (2) Philosophy, 3. | Least Squares. |
| Logic. | (2) Meteorology, 2. |
| | Climatology. |
- Elective, seven hours per week.

COURSE X—IN GEOLOGY AND MINERALOGY.

SECOND YEAR.

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|----------------------------|------------------------------------|
| (2) Botany, 1. | (2) Mathematics, 3. |
| Structural and Systematic. | Trigonometry. |
| (2) Civil Engineering, 3. | (3) Mineralogy, 1; Descriptive and |
| Topographical Surveying. | Determinative, 2. |
| (2) German. | (3) Physics, 1. |

THIRD YEAR.

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|-----------------------|------------------------------|
| (10) Chemistry, 2. | (2) German. |
| Qualitative Analysis. | (2) Mineralogy. |
| (2) Geology, 1. | Determinative and Crystallo- |
| General. | graphic. |
| | (2) Zoölogy. |

FOURTH YEAR

- | | |
|------------------------|--|
| (2) Astronomy, 2. | (2) Philosophy, 3. |
| General Astronomy. | (1) Physiography, 1 |
| (2) Drawing, 2. | (2) Paleobotany. |
| Topographical Drawing. | (2) Paleozoölogy. |
| (2) Economics, 7. | (2) Special Lectures on Rock-weathering and Sedimentation, |
| (2) Geology, 2. | Field Methods, etc. |
| Applied Geology. | |
| (1) Meteorology, 2. | |
| General Climatology. | |

COURSE XI—IN ARCHITECTURE.

SECOND YEAR.

- | | |
|--|---|
| (4) Applied Mathematics, 2, 5.
Descriptive Geometry and
Mechanics. | (1) Mechanical Engineering, 3.
Machine Drawing. |
| (3) Architecture, 1, 4.
History; Planning. | (3) Mathematics, 3, 4.
Trigonometry; Analytic Ge-
ometry. |
| (2) Engineering, 2, 9, 15.
Use of Instruments; Con-
struction. | (1) Mineralogy, 1.
Descriptive Mineralogy. |
| (2) German, 1. | (3) Physics, 1.
General Physics. |
| (1) Fine Arts, 3.
Architectural Drawing. | |

THIRD YEAR.

- | | |
|--|---|
| (6) Applied Mathematics, 3, 4, 9,
11.
Perspective; Stereotomy;
Graphic Statics; Mechan-
ics. | (2) Economics, 1.
Accounting. |
| (4) Architecture, 2, 5, 7, 10.
History; Planning; Prac-
tice; Inspection. | (3) Engineering, 16, 17.
Construction. |
| | (2) Fine Arts, 4.
Composition. |
| | (2) Geology, 1.
Systematic Geology. |
| | (2) German, 2. |

FOURTH YEAR.

- | | |
|---|------------------------------------|
| (12) Architecture, 3, 6, 8, 9, 10.
History; Planning; Prac-
tice; Inspection; Heat-
ing and Ventilation. | (2) Philosophy, 3.
Logic. |
| (2) Astronomy, 1.
General Astronomy. | (2) Economics, 2.
Business Law. |

COURSE XII—IN FINANCE AND ECONOMICS.

SECOND YEAR.

- | | |
|--|--|
| (4) Economics, 1, 7.
Accounting; Political Economy. | (1) Mineralogy, 1.
Descriptive Mineralogy. |
| (2) German, 1. | (3) Physics, 1.
General Physics. |
| (2) Geography, 1.
Physical. | (4) Romance Languages, 2, 5.
French; Spanish. |
| (3) Mathematics, 3, 4.
Trigonometry; Analytic Geometry. | |

THIRD YEAR.

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|---|---|
| (8) Economics, 2, 4, 5, 6.
Business Law; Statistics; Civics; Economic Development. | (2) German, 2. |
| (2) Geology, 1.
Systematic Geology. | (4) History, 1, 2.
American; English; Ancient. |
| (2) Geography, 2.
Economic. | (2) Philosophy, 1.
Physiological Psychology. |
| | (4) Romance Languages, 3, 6.
French; Spanish. |

FOURTH YEAR.

- | | |
|---|---|
| (2) Astronomy, 1.
General Astronomy. | (2) Economics, 7.
Political Economy. |
| (2) Botany, 1.
Systematic. | (2) German, 3. |
| (5) Chemistry, 10.
Laboratory; General Principles. | (4) Philosophy, 2, 3.
Psychology; Logic. |
| | (2) Romance Language, 7.
Italian. |

COURSE XIII—IN LANGUAGE AND LITERATURE.

SECOND YEAR.

- | | |
|--|---|
| (2) Economics, 7.
Political Economy. | (1) Mineralogy, 1.
Descriptive Mineralogy. |
| (2) German, 1. | (3) Physics, 1.
General Physics. |
| (3) Mathematics, 3, 4.
Trigonometry; Analytic Geometry. | |

and any four languages which include English and French may be taken as the subjects in which the student is to do his work for the degree of B. S. In English the year is spent in the study of English Literature, 3. Instruction in other languages will include the following features:

- (a.) Sight translation from the foreign language into English.
- (b.) Thorough study of grammatical forms.
- (c.) Critical study of syntax; historic explanation of idioms.
- (d.) Copious exercises in composition.
- (e.) Exercises in conversation and dictation.

THIRD YEAR.

- | | |
|--|--------------------------------|
| (2) Botany, 1.
Systematic. | (2) Geography, 2.
Economic. |
| (2) Geology, 1.
Systematic Geology. | (2) German, 2. |

and work in English, to consist of Anglo-Saxon (5) and a one-hour elective course. In other languages the instruction will embrace:

- (a.) An extended course of reading so selected as to lift into bold relief the development of the great schools of literature which have arisen in each country whose language is studied.
- (b.) Exercises in composition, conversation, and dictation.
- (c.) The history of the language; studies in comparative philology.
- (d.) The history of the people as written by themselves.

FOURTH YEAR.

- | | |
|---|--|
| (2) Astronomy, 1.
General Astronomy. | (5) Chemistry, 10, or Physics, 9.
Laboratory; General Principles. |
| (2) Philosophy, 3.
Logic. | |

The course in English for the year will be a critical study of the history of English literature in its great masterpieces, or an equivalent amount of elective work (three hours per week), with essays, historical, literary, and critical. The instruction in other languages will include:

- (a.) Reading; writing of essays in the language; conversation.
- (b.) The study of one of the most important epochs of the literature.
- (c.) Students are required to write a thesis embodying the results of their study of the works of some great author.
- (d.) Studies in comparative literature.

SCHEDULE OF LECTURES AND RECITATIONS, 1895-'96.

HOURS. P. M.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
4.30 to 5.30	Advanced English. Building Construc- tion. Tall Buildings.	Statistics. Architecture, IV. (4 to 5) Architecture, I. (5 to 6.)	Advanced English. Perspective and Shadows.	Mechanics of Con- struction.	Advanced English. Building Construc- tion. Statistics. Tall Buildings.	Zoölogy.
6 to 7	Calculus. Geometric Draw- ing. Greek, II. Mineralogy.	Algebra. Anglo-Saxon. Architectural Draw- ing. Astronomy. Botany. Engineering Top- ics. Ethics. Machine Drawing. Spanish, I.	English Language. German, I. Heat Motors. House Sanitation. Latin, III. Psychology, I. Spanish, III. Thermodynamics.	American Litera- ture. Analytic Geometry. Chemistry, I. Ethics. Graphic Statics. Trigonometry.	Analytic Geometry. Botany, II. French, I. Geology. Greek, I. Physiology. Spanish, I. Trigonometry.	German, I. Latin, IV. Mechanical Ing. Spanish Converse- ation.
7 to 8	Analytic Geometry. Business Law. Chemistry, I. Geography. Geology. Greek, I. Heat Motors. Italian. Strength of Mate- rials. Thermodynamics. Trigonometry.	Accounting. Architectural Draw- ing. Building Construc- tion. Botany. Engineering Top- ics. English Literature. French, I. Greek, I. Machine Drawing. Modern History. Spanish, II.	Chemistry, I. Me- chanics. Elementary Geography. German, II. Latin, IV. Portuguese. Psychology, II. Shakespeare.	Botany. Business Law. Calculus. Greek, II. Italian, I. Mechanical Draw- ing. Physics, I. Psychology, I.	Accounting. Geometry. Mineralogy. Physiography. Psychology, II. Spanish, II.	Architectural Draw- ing. German, III. Latin, I. Machine Drawing. Portuguese.

SCHEDULE OF LECTURES AND RECITATIONS, 1895-'96—Continued.

Hours, P. M.	MONDAY.	TUESDAY	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
8 to 9	Astronomy. Civics. Geometry. Italian, II. Machine Construc- tion. Physics, I. Strength of Mate- rials	Analytical Mechan- ics. French, III. History of Mathe- matics. Least Squares. Political Economy. Rhetoric. Solid Analytic Ge- ometry. Topographic Drawing.	Ancient History. Engineering Top- ics. French, II. German, III. Latin, I. Latin-American History. Mechanics of Ma- chinery.	Astronomy. Differential Equa- tions. Electricity. French, II. Italian, II. Machine Drawing. Political Economy. Rhetoric. Surveying.	Algebra. Civics. Descriptive Geome- try. Electricity. English Literature. French, I &	Free-hand Drawing. German, III. Latin, IV.
9 to 10	Algebra. Economic Develop- ment. Machine Construc- tion. Surveying.	Analytical Mechan- ics. Finance. Logic. Topographic Drawing.	Ancient History. Engineering Top- ics. Machine Construc- tion.	Economic Develop- ment. English Literature. History of Mathe- matics. Least Squares. Machine Drawing. Solid Analytic Ge- ometry.	Descriptive Geom- etry. Finance. Logic.	

"Chemistry, 10," a laboratory course, Tuesday, from 5 to 10 p. m.
The Laboratories (Botanical, Chemical, Geological, Mineralogical, and Physical) and Drawing Rooms are open every evening.
The full course in Assaying occupies three evenings a week for three months.

DEPARTMENTS OF INSTRUCTION.

Anthropology.

DR. MASON, Lecturer.

(See under head of "Graduate School.")

Applied Mathematics.

(See Department of Engineering.)

Architecture.

PROFESSOR HORBLOWER, Head of Department.

MR. SIMPSON, Associate Professor of Architecture.

MR. BROWN, Lecturer on Sanitary Engineering.

MR. FULLER, Assistant in Architecture.

1. History of Architecture, I, one hour.*
2. History of Architecture, II, one hour.
3. History of Architecture, III, one hour.
4. Original Planning and Design (second year).
5. Original Planning and Design (third year).
6. Original Planning and Design (fourth year).
7. Work in Architects' offices.
8. Heating and Ventilation, one hour, one term.
9. Sanitary Engineering for Architects, one hour, one term.
10. Inspection of buildings erected or in course of erection.

Astronomy.

PROFESSOR WINLOCK, Head of Department.

MR. RICE, Instructor.

1. General Descriptive Astronomy. Three hours. Young's General Astronomy, with occasional Lectures.

Arrangements have been made for occasional visits to the New U. S.

* Unless otherwise stated, hours per week throughout the year.

Naval Observatory, so that students may be familiarized with the use of large telescopes.

2. Practical Astronomy, one hour.

3. Mathematical and Theoretical Astronomy, two hours.

Theory is taught mainly by Lectures, supplemented by the solution of problems and practical computations.

Botany.

PROFESSOR SCRIBNER, Head of Department.

MR. KEARNEY, Assistant.

1. Structural and Systematic Botany.

The year will be devoted to general organography and morphology of flowering plants and the higher cryptogams, with brief outline review of the remaining groups. *Field excursions* will be given whenever practicable, and the student will be expected to become familiar with the determination of ordinary flowering plants and vascular cryptogams, and to be able to recognize the principal groups at sight. The student will also be instructed as to the proper manner of collecting and preparing plants for the herbarium and directed to begin the preparation of a local herbarium. Two hours.

Text-books: Gray's Structural Botany; Gray's Manual of Botany of the Northern United States.

Reference books: Ward, Guide to the Flora of Washington and Vicinity; Knowlton, Directions for Collecting Recent and Fossil Plants.

2. Histological and Physiological Botany.

The year will be devoted to lectures and laboratory work in histology and physiology. The cutting of sections and staining and mounting of botanical objects will be described and illustrated.

The field excursions will be continued and the study of the more difficult orders or genera of flowering plants, such as Compositæ, Graminæ, and Carex, will be taken up. Attention will also be given to the lower groups, as mosses, algæ, and fungi, and the important characters reviewed.

Each student will be required to collect, prepare, and mount an herbarium of one hundred species of local plants, which must be properly identified and classified. Two hours.

Text-book: Goodale's Physiological Botany.

Reference books: Bennett and Murray, Cryptogamic Botany.

Chemistry.

PROFESSOR MUNROE, Head of Department.

DR. BOLTON, Lecturer on the History and Philosophy of Chemistry.

DR. CHATARD, Lecturer on Chemical Engineering.

MR. WHITEHEAD, Assistant in Assaying.

DR. FIREMAN, Instructor in Chemistry.

MR. MILLS, Assistant in Qualitative Analysis.

—, Assistant in General Chemistry.

1. General Chemistry, a series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic, and technical chemistry. Three hours.

Text-books: Barker's, Remsen's, and Bloxam's Chemistries.

2. Chemical practice and Qualitative Analysis, a laboratory course in the manufacture of chemical substances, the study of their properties and reactions, and of the means employed for their detection and identification. Twelve hours.

Text-books: Clowe's and Fresenius's Qualitative Analysis.

3. Quantitative Analysis, a laboratory course in the quantitative estimation of the constituents of a specially selected and typical set of chemical substances, which are particularly adapted for teaching the student the aims and methods of quantitative chemical analysis and for imparting facility in manipulation. Fifteen hours.

Text-books: Fresenius's and Thorpe's Quantitative Analysis.

4. Technical Analysis and Industrial Processes, a lecture and laboratory course in which the elements of chemical engineering will be taught, and special attention will be given to rapid commercial methods of analysis. Twelve hours.

Text-books: Hempel's Gas Analysis, Phillips's Engineering Chemistry, Wagner's Chemical Technology.

5. Assaying and Metallurgy of the Precious Metals, carried on by the methods used by the Government assayers, the laboratory being fitted up on the plan of that of the United States Mint. Twelve hours a week for three months.

Text-books: Brown's Manual of Assaying, Rickett's Assaying.

6. History and Philosophy of Chemistry, an illustrated lecture course offered gratuitously to all students in the Department and given at irregular intervals.

7. Chemistry of the Carbon Compounds, a laboratory course in the preparation and study of the properties of a characteristic series of organic compounds. Twelve hours.

Text-book: Cohen's Practical Organic Chemistry.

8. Modern Methods of Iron and Steel Analysis, a laboratory course for which a large amount of valuable material has been accumulated. For checking the work samples which have been analyzed by some of our most eminent specialists are available. Fifteen hours.

Text-book: Blair's Chemical Analysis of Iron.

9. Chemistry of Explosive Substances, a laboratory and field-work course in the preparation and in the study of the properties and methods of analysis of explosive bodies. Fifteen hours.

Text-book: Munroe's Chemistry of Explosives.

10. Experimental Chemistry, a laboratory course for the study of the principles of chemistry and the chemical properties of bodies. Five hours.

Text-book: Cooke's Laboratory Practice.

11. Advanced course in Organic Chemistry, Bernsthen.

12. Lectures on the Principles of Analysis.

Work completed in this Department is accepted as the equivalent of similar work required in the Columbian Medical School.

Special attention is paid in all courses to the methods of making notes. Students are given practice in making abstracts. All are required to consult the current periodicals and works of reference. Advanced students will prepare a bibliography on some special topic.

Drawing.

PROFESSOR KING, Head of Department and Lecturer on Mechanical Drawing.

Mr. THURSTON, Assistant in Mechanical Drawing.

Mr. KLACKRING, Assistant in Topographic Drawing.

This Department has been organized for the special instruction and training of superior draughtsmen.

The course of instruction, in conjunction with those of the other departments of the School, will include all branches of drawing practiced in the departments of the Government, special attention being given to the technical character of Patent Office drawings as required by the rules of that office; to map-making and to lettering, and will consist in the main of practical demonstrations on the blackboard and on the individual drawing-board of the student.

1. Mechanical Drawing.
2. Topographic Drawing.
3. Topographic Drawing as Applied in Architecture.
4. Lettering as Applied to Topographic and Mechanical Drawings.

Each of these courses will occupy two hours a week and will be supplemented by practice.

Economics.

PROFESSOR CRAVEN, Head of Department.

Dr. WRIGHT, Lecturer on Statistics.

Dr. WARD, Lecturer on Sociology.

Mr. FORD, Lecturer on Statistics and Finance.

Mr. ECKELS, Lecturer on National Banking.

Mr. ROBERTSON, Instructor in Accounting.

Mr. McNABB, Instructor in Business Law.

Mr. NEWCOMB, Instructor in Statistics.

I.—FINANCE.

1. Advanced Accounting and Auditing.

1st Term: Private, Individual, and Corporation Business.

2d Term: Public, Official, and Municipal Business. Two hours a week.

2. Practical Business, Commercial and Banking Law :
 - I.—Business Law in general :
Principles on which it rests.
 - II.—The Law of Contracts :
 - a. Agency, Partnership, Corporations, Real Estate, Personal Property, etc.
 - b. Commercial Paper :
Rights and Duties of Parties to Bills, Notes, Drafts, and Checks.
 - III.—Descent and Distribution of Property :
Duties of Executors, Administrators, Trustees, Guardians, etc.
 - IV.—Business Forms and Practice. Two hours a week.
3. THE HISTORY AND SCIENCE OF—
 - (1) PRIVATE FINANCE: Barter, Exchange, Money, Coinage, Credit and Banking. Two hours a week, 1897-'8.
 - (2) PUBLIC FINANCE: In ancient, mediæval, and modern times. A comparison of the present systems of Germany, France, England, and the United States. Texts, Cohn and Bastable. Two hours a week, 1896-'7.

II.—POLITICS AND ADMINISTRATION.

4. I. CIVICS: Civil Government of the United States. Texts, Burgess and von Holst. Two hours a week, 1897-'8.
- II. Theories and Forms of Government: Ancient Greece and Rome: early Germanic Codes, and modern France, Germany, England, and the United States. Text, Bluntschli. Two hours a week, 1896-'7.

III.—POLITICAL ECONOMY.

5. ECONOMIC DEVELOPMENT :
 - (1.) History of economic growth among prehistoric peoples and among ancient, mediæval, and modern nations, to A. D. 1500. Two hours a week, 1896-'7.
 - (2.) Modern Commercial and Industrial Development, with a study of recent economic changes and legislation. Two hours a week, 1897-'8.
6. STATISTICS: Financial, Commercial, Social, and Industrial. Two hours a week.

7. SPECIAL POLITICAL ECONOMY:

I. History of the Science of Political Economy, following the outlines of Roscher, Ingram, and Cossa. Two hours a week, 1897-'8.

II. 1st Term: Theoretical Political Economy and economic problems.

2d Term: Applied Political Economy; practical social questions. Text-book, Ward's Dynamic Sociology. Two hours a week, 1896-'7.

Engineering and Applied Mathematics.

PROFESSOR FAVA, Head of Department.

MR. AVERILL, Instructor in Engineering Field-work.

MR. FREYHOLD, Assistant in Iron and Steel Construction.

MR. JOHNSON, Assistant in Applied Mathematics.

——, Assistant in Engineering.

——, Assistant in Topographic Surveying.

——, Assistant in Building Construction.

APPLIED MATHEMATICS.

1. Elements of Applied Geometry, 1 hour.
2. Descriptive Geometry, parts I and II, and Geometry of Position, 2 hours, and Constructive Exercises, 6 hours. Reference: Fava, Warren, Church, Fiedler, Reye, etc.
3. Perspective and Shadows, 1 hour, and Exercises, 2 hours.
4. Stereotomy, 1 hour, and Exercises, 2 hours. Reference: Warren, Adhémar, etc.
5. Elementary Mechanics, 2 hours, second term.
6. Analytical and Applied Mechanics, parts I and II. Reference: Weisbach, Ritter, and Rankine, 2 hours.
7. Hydrodynamics, Hydraulics, and Pneumatics, 1 hour.
8. Strength of Materials and Theory of Elasticity, parts I and II, 2 hours. Reference: Same as 5 and 6, with Bresse. Collignon, etc.
9. Graphical Statics, parts I and II, 1 hour, and Designing Exercises, 2 hours. Reference: Culmann, W. Ritter, Du Bois, Koechlin, Fava, etc.
10. Mechanics of Machinery, 1 hour. Reference: Rankine, Reuleaux, etc.
11. Mechanics of Construction for Architects, parts I and II, 1 hour.

CIVIL ENGINEERING.

1. Land Surveying and Theory of Instruments, parts I and II, 2 hours, and Practical exercises and Field-work in the Spring.
2. Use of Surveying Instruments, for Architects, Mechanical and Electrical Engineers, 6 meetings in the Field.
3. Topographical Surveying, parts I and II, 2 hours, and Field Practice.
4. Railroad and Highway Engineering and Hydraulic Engineering (Canals, Rivers, and Harbors, Irrigation and Drainage), 1 hour, and Constructive Exercises, 10 hours.
5. Engineering Field-work and Railroad Surveying, 16 meetings.
6. Hydrographic Surveying and Exercises, 1 hour, 1 term.
7. Masonry and Wooden Structures and Iron and Steel Structures, 1 hour, and Constructive Exercises, 15 hours.
8. Engineering Plant, 1 hour, and Sketching Practice.
9. Materials of Engineering and Metallurgy of Iron and Steel, 1 hour.
10. Water Supply, Sewerage, and Sanitary Engineering, 1 hour.
11. City Engineering, 1 hour, 1 term.
12. Municipal Engineering (Street Railroads and Lighting), for Mechanical and Electrical Engineers, 1 hour.
13. Discussion of Engineering Topics, weekly.
14. Inspection of actual work, fortnightly.

BUILDING CONSTRUCTION.

15. Building Construction, part I, 1 hour, and Constructive Exercises, 15 hours. Reference: Rivingtons, I and II; Burrel, Tutthill.
 16. Building Construction, Specifications, and Working Drawings, parts II and III, 2 hours each, and Constructive Exercises, 10 hours.
 17. Modern Tall Buildings, and the use of iron in buildings, 1 hour.
 18. Construction of Plants and Buildings, for Mechanical and Electrical Engineers, 1 hour, and Constructive Exercises, 3 hours.
- Constructive Exercises are carried on largely outside of the regular recitation hours.

English.

PROFESSOR SMITH, Head of Department.

PROFESSOR FARQUHAR.

Mr. SEMPERS, Assistant.

1. Practical Rhetoric. Text-book for reference: Genung. Frequent exercises in composition and criticism. Two hours a week.
2. History and Grammar of the English Language. Text-book: Meiklejohn. One hour.
3. English Literature, General History, followed by Lectures, Readings, and Essays. Text-book: Shaw's New History; subsequently, various selected texts. Two hours.
4. American Literature, course similar to 3. Text-book: Beers. One hour.

ELECTIVE COURSES.

5. Anglo-Saxon. Text-book: Bright's Anglo-Saxon Reader. One hour.
 6. Chaucer. One hour, through the year.
 7. Shakespeare's tragedies. One hour.
 8. Bacon and Milton.
 9. English Literature of the Eighteenth Century.
 10. Poets and Prose-writers of the Nineteenth Century.
- These courses are provided for those who elect the general plans or courses of study numbered I and XIV, but are open to others. The formation of classes in these courses depends upon the number of students applying.
11. Advanced general course in English Literature. Three hours.
 12. English Composition.

Fine Arts as Applied to Architecture.

PROFESSOR AMATEIS, Head of Department.

Mr. MEYER, Instructor in Free-hand Drawing.

1. Free-hand Drawing. One hour.
 2. Architectural Drawing. One hour. (The five orders.)
 3. Architectural Drawing. One hour. (Application of the five orders.)
 4. Practice in Designing Monuments, Building, etc., of different styles; also lectures on history of ornaments, painting, and sculpture.
- Drawing-rooms are open to students for practice from 10 a. m. to 10 p. m. daily.

Geodesy.

PROFESSOR GORE, Head of Department.

1. As supplementary to the course in Engineering, instruction is offered in Geodesy, embracing base-line measurement, adjustment of triangulation, computation of geodetic coördinates, and a discussion of the figure of the earth.

Text-book: Gore's Elements of Geodesy, 3d edition.

Geography.

PROFESSOR GREELY, Head of Department.

MR. PORTER, Assistant.

The course of instruction will include Physical and Economic Geography. The methods followed will embrace compilations, collations, and investigations by the students, and courses of lectures by the professor. The latest text-books will be supplemented by the discussion of recent geographical data drawn largely from current scientific and statistical publications of the various Governmental bureaus in Washington.

I. Physical Geography: two hours. Especial attention will be given to such parts of the earth as by fauna and flora, by mineral and vegetable deposits, or by other favoring physical conditions, either contribute most largely or promise future advantages to human welfare. Among other subjects will be considered the material influence of climatic conditions and geological formations as factors in the development of natural resources; modifications and extensions of fauna and flora by human or natural agencies: discoveries of mineral, vegetable, and other deposits; transference of centers of population, industries, and commerce; improvements of natural and creation of artificial transportation routes, and other similar physical features related to human activities.

II. Economic Geography: two hours. The subjects specially studied bear on the most important factors connected with the development of agricultural and mineral resources, the extension and evolution of industrial methods, and their dependence on trade and commerce. The growth or decadence of the more important activities of countries or regions, transitions in industrial methods, modifications of commercial relations, the development of improved transportation routes, will be considered in their relations to each other and their effect on the future development of the world in general and the United States in particular.

Geology and Mineralogy.

PROFESSOR MERRILL, Head of Department.

MR. STANTON, Instructor in Paleontology and Stratigraphical Geology.

1. Descriptive Mineralogy. Two hours a week for one term.
2. Determinative Mineralogy. Four hours a week for one term.

GEOLOGY.

1. Systematic Geology; Geognosy; Dynamical, Structural, and Stratigraphical Geology. Two hours throughout the year. Text-book: Leconte's Elements of Geology.

2. Economic Geology. Two hours throughout the year. Text-books: Kemp's Ore Deposits of the United States, Merrill's Stones for Building and Decoration.

Mineralogy is taught as introductory to geology. The course is therefore designed with especial reference to minerals as rock constituents or as segregated in ore deposits. So far as possible, the course is practical and includes a study of the ores of the base and precious metals and their associates, and the non-metallic minerals, as the natural salts and the hydrocarbon compounds. Opportunity is given the student to become familiar with blowpipe and qualitative methods of determination, and access is given to a varied collection showing the minerals not merely in their pure and well crystallized forms, but in massive and granular forms, associated with gangue products and other impurities as occurring in nature.

The Course in Geology consists of lectures, recitations, laboratory and field work. Opportunity is given the students in the laboratory, and, so far as hours will permit, in the field as well, to familiarize themselves with the appearance and general characteristics of rock masses. Text-book recitations are supplemented by lectures on the subjects of rock formation by sedimentation, metamorphism, and vulcanology, and, so far as time allows, on the methods of study by means of the microscope and thin sections (micropetrology). Under the head of Applied Geology are considered, mainly by lectures and laboratory practice, the subjects comprised under, (first) mineral veins and metalliferous deposits, their mode of occurrence, origin, and classification; (second) the ores of iron, copper, lead, zinc, tin, silver, gold, mercury, manganese, antimony, etc.; and (third) the non-metallic minerals, as the coals and hydrocarbon compounds; salts and materials used in chemical manufactures; abrasive, re-

fractory, and fictile materials, mineral pigments, gems and ornamental stones, building stones, limes and cements, and mineral waters.

Paleontology is treated as a branch of geology, with special reference to its use in stratigraphy and correlation. As an introduction to the subject, representatives of the principal invertebrate types are studied. The successive faunas are then taken up, and the most characteristic forms are studied in connection with the distribution and stratigraphy of the sedimentary rocks of each period.

German.

PROFESSOR SCHOENFELD, Head of Department.

1. Accurate training in elementary grammar (Otis); pronunciation and translation from English into German; exercise in conversation; readings from Anderson's *Bilderbuch ohne Bilder*, Storm's *Immensee*, and some easy German poetry. Two hours.

2. More extended course in German syntax and principal difficulties of the language, idioms, etc.; extensive translations into German; Gore's *Science Reader*, fourth edition; selected stories; Lessing's *Minna von Barnhelm*. Two hours.

3. Study of idioms, synonyms, and Sander's *Hauptschwierigkeiten der deutschen Sprache*; special preparation for scientific professional work; Helmholtz on Goethe's work in natural history (edition of Seidensticker); Du Bois-Raymond's *Rectoratsreden*; critical studies of German classics; lectures on German literature. Two hours.

A special course in German training for advanced students in History and Economics is offered. Schoenfeld's *German Historical Prose* and the standard works of German historians and economists will be read. Number of hours subject to arrangement.

Greek.

MR. PYNE, Instructor.

1. White's *Beginner's Greek Book*; Xenophon's *Anabasis*, Book I. Two hours.

2. Xenophon's *Anabasis*, Books II and III; Goodwin's *Greek Grammar* (revised edition); Homer's *Iliad*, Books I, II, and III; Exercises. Two hours.

3. Homer's Iliad, Books IV, V, and VI; Herodotus (Seymour); Goodwin's Greek Grammar (revised edition); Exercises. Two hours.

4. Xenophon's Memorabilia; Isocrates' Panegyricus; Grammar exercises. Two hours.

Courses 1 and 2 do not count for a degree.

History.

PROFESSOR FARQUHAR, Head of Department.

1. American and English History. Text-books: Fiske, Johnston, Airy, Green. Reference books: Bancroft, Adams, Von Holst, McMaster, Freeman, Macaulay. Two hours.

2. Ancient History. Text-books: Ragozin, Smith, Meyers, Merivale. Reference books: Bruysch, Rawlinson, Grote, Arnold, Mommsen. Two hours.

3. Mediaeval History. Text-books: Church, Bryce. Reference books: Gibbon, Hallam, Guizot. Two hours.

4. Modern History. Lecture course. Two hours.

Instruction in this department will be given both by text-books and lectures. The method will be rational and comparative rather than precise and mechanical. The course of human progress and development, the growth of institutions and civilization will receive more emphasis than separate facts. The unequalled facilities for historical research afforded by the Capital of the Nation will be held in view of the classes, and essay-work required.

Latin.

PROFESSOR MONTAGUE, Head of Department.

MR. PYNE, Instructor.

I. Collar and Daniell's First Latin Book; Lindsay's Cornelius Nepos. Two hours.

II. Lindsay's Cornelius Nepos; Cæsar; Harkness's Latin Grammar; Exercises. Two hours.

III. Cicero; Vergil; Harkness's Latin Grammar; Exercises. Two hours.

IV. Ovid; Livy; Harkness's Latin Grammar; Exercises. Two hours.

V. Horace, Odes and Satires; Cicero, De Amicitia; Tacitus, Germania and Agricola; Harkness's Latin Grammar; Exercises. Two hours.

VI. Juvenal; Pliny; Plautus; Terence. Two hours.

Courses I, II, and III are preparatory and do not count for a degree.

Mathematics.

PROFESSOR HODGKINS, Head of Department.

MR. HODGKINS, Assistant.

(A.) Elementary Algebra: two hours. Bowser's College Algebra.

(B.) Plane Geometry: two hours. Wells's Plane and Solid Geometry (revised edition).

1. Algebra: three hours. Bowser's College Algebra.

2. Geometry: two hours. Wells's Plane and Solid Geometry (revised edition).

3. Trigonometry: three hours, first term. Wells's Plane and Spherical Trigonometry and Bowser's Treatise on Trigonometry.

4. Analytic Geometry: three hours, second term. Bowser's Analytic Geometry.

5. Calculus: two hours. Bowser's Calculus.

6. Differential Equations: two hours. Johnson's Differential Equations.

7. Least Squares: two hours, ten weeks.

A lecture course, with references to Merriman's Least Squares and Wright's Treatise on the Adjustment of Observations.

8. Determinants: two hours, ten weeks.

Weld's Determinants; Hanus's Determinants.

9. Quaternions: two hours, ten weeks.

Hardy's Quaternions.

10. Analytic Geometry of Three Dimensions: two hours, ten weeks.

11. Theory of Equations: two hours, ten weeks.

12. History of Mathematics.

Courses A and B are preparatory courses, intended for beginners, and do not count for a degree. It is expected that students entering courses 1 and 2 shall have studied plane geometry and through quadratic equations in algebra. But as a thorough and ready knowledge of these elements is so essential to a proper understanding and mastery of the subsequent courses, and as many who have not studied mathematics for some years wish to enter these classes, it has been customary to devote

the first part of the year to a careful but rapid review of some of the earlier parts.

Courses 7 to 12 are short lecture courses, and, while intended especially for students who wish only the elements of the subjects, serve as preparation for the advanced courses described under the Graduate School. Usually only three of these five courses will be given each year.

Mechanical Engineering.

PROFESSOR ZOPKE, Head of Department.

MR. FARWELL, Associate Professor of Mechanical Engineering.

MR. MUIR, Assistant in Machine Drawing.

1. Elements of Projection. A drawing course in projections for beginners. Four hours.
2. The Elements of Machines. A course in working drawings for mechanical engineering students or for special students. Four hours.
3. The Elements of Machine Drawing. A course for civil engineering and architectural students. One hour.
4. Machine Drawing. A drawing course for the representation of machine parts and machines for mechanical and electrical engineering. Four hours for two years.
5. The Elements of Machines. Theory and construction of the elements of machines for mechanical and electrical engineering. Four hours.
6. Designing of Elements of Machines and of Simple Machines for mechanical and electrical engineering. Six hours.
7. Hoisting Machinery for mechanical engineering. 1 term. Two hours.
8. Designing of Hoisting Machinery for mechanical engineering. 1 term. Two hours.
9. Investigation of Fundamental Machine Problems for mechanical, electrical, and civil engineering. Two hours.

Mental and Moral Philosophy.

PROFESSOR LODGE, Head of Department.

The method of instruction is, first, inductive, viewing the states of consciousness as complexes of physiological and psychological elements which are to be discriminated, described, and correlated empirically by the student; second, historical, tracing the evolution of philosophic opin-

ions; third, comparative, passing in review the teachings of the greatest thinkers on the problems investigated in the class-room.

1. Physiological Psychology. The class is introduced to the study by lectures on man's place in nature. In these the theory of evolution is discussed, and a summary of the arguments for and against it is given. During the first term the class studies Ladd's "Outlines of Physiological Psychology." The text-book for the second term is Porter's "Elements of Intellectual Science." Continued references are made to the writings of Wundt, Ribot, Sir William Hamilton, McCosh, Hall, Dewey, Sully, and James. Two hours.

2. Rational Psychology. In the first term Dr. Porter's book is completed. During the second term the results of the recent researches along the lines of psycho-physics are announced and interpreted. Care is taken to define the relations of psychology to pedagogy. Every lecture is followed by a brief oral examination thereon. The class is required to read and summarize in writing the most important articles that appear during the session in the *American Journal of Psychology*. Each student at the beginning of the second term is assigned a subject for investigation. On this subject a satisfactory essay must be written before the end of the session.

The above course will be supplemented by lectures, giving first a summary of ancient and mediæval speculation, and then discussing the essential characteristics, the development, the influence, and the fruits of the philosophic systems of such typical thinkers as Descartes, Locke, and Kant. Two hours.

3. Logic, Deductive and Inductive. Text-books: Jevons, Fowler; lectures, with frequent references to Whately, Hamilton, Thomson, and Mill. Special care is taken to develop the psychological bases of logical rules. Two hours.

4. Moral Philosophy. The instruction in moral philosophy includes the following features:

I. Students are taught to recognize, prescind, and correlate the ethical elements in psychical life.

II. The common terminology of ethics is subjected to a rigorous examination, psychological and philological, in order that the precise content of each word, as well as its origin and life-history, may be learned.

III. The course of moral speculation is outlined in lectures upon the chief ethical systems from Socrates to Spencer.

IV. The class then begins the study of Calderwood's "Handbook of Moral Philosophy," which is used as the basis of instruction during the remainder of the year. Two hours a week.

Meteorology and Its Applications.

PROFESSOR ABBE, Head of Department.

PROFESSOR MARVIN, Associate Professor.

MR. ABBE, Instructor in Physiography.

The courses in Meteorology are designed to give a complete review of the present condition of that science, and they are necessarily extended through five years, but the lectures are so arranged that each of the five divisions is complete in itself. Each course presents a detailed view of its branch of the subject, such as may be desired by students who need this information in connection with other branches of knowledge to which they are specially devoting themselves.

Students who intend to present themselves for the degree of Ph. D. in Meteorology must pursue all five courses.

In addition to the Lectures the professor will devote one hour a week to a quiz class, in which, by questions and answers, he will seek to remove any difficulties that remain.

The first three years of the complete course in Meteorology is pursued in the Corcoran Scientific School during the second, third, and fourth years of the courses of study that lead to the degree of B. S. in Meteorology.

Physiography as a branch of Geology is assigned to the department of Meteorology as being that special application of Climatology to Geology whereby the history of the formation of the surface of the earth is explained.

1. OBSERVATIONAL METEOROLOGY.—Personal diary of the weather; general methods of observing without instruments; the rain gauge; the thermometer; the barometer; the nephoscope; the anemometer; hygrometry; actinometry; self-registering apparatus; observations in balloons; observations on mountain stations; meteorological expeditions by land and sea; forms for record; methods of computation of means and normals; graphic methods of presenting results. Two hours.

2. GENERAL CLIMATOLOGY.—Elements of climate; general distribution over the earth of sunshine, temperature, moisture, pressure, wind, clouds; diurnal, annual, and secular periodicities; variability of local climates; empirical relations between the winds and the other elements; the absorption of radiations by the atmosphere; the theory of probabilities as used in climatology; the computations of the coefficients of the Bessels-Fourier

equation; the climatic features of areas of high and low pressure; the relations between ocean currents and the atmosphere; solar and lunar tides; the constituents of the atmosphere and their variations; atmospheric dust; atmospheric moisture; climatic characteristics of oceanic, continental, and littoral regions; sensible temperatures; constitution of the atmosphere as affected by plants, animals, altitudes, and the ocean; influence of snow, swamps, and forests. Two hours.

3. SPECIAL SUBJECTS IN METEOROLOGY AND CLIMATOLOGY.—Optical phenomena: (a) atmospheric refraction, reflection, and dispersion; (b) twilight; (c) scintillation; (d) blue light of the sky; (e) polarization of skylight; (f) haloes, glories, and coronas; (g) rainbows; (h) parhelia; (i) red and green suns.

Thermal phenomena: (a) selective absorption; (b) the bolometer and bolographs; (c) radiation from the dust and vapor; (d) convection and conduction of heat.

Acoustic phenomena: (a) refraction and reflection of sound; (b) fog signals; (c) thunder; (d) meteorite explosions.

Electrical phenomena: (a) atmospheric potential; (b) the theory of Exner and Trabert; (c) the lightning flash; (d) auroral light; (e) diffuse discharges on mountain tops and within snow-storm clouds.

Climate and geology: (a) morphology of the earth's surface; (b) the atmosphere and ocean; (c) climates and geological ages; (d) physiography of recent geologic times; (e) glacial epoch; lessons from the migrations of birds and the distribution of mammals, fishes, and plants.

Climate and vegetation: (a) phænology; (b) acclimatization; (c) geographic distribution of plants; (d) frosts and droughts; (e) electroculture; (f) climate and crop statistics.

Climate and anthropology.

Climate and hygiene: (a) warming and ventilation; (b) humidity and sensible temperatures; (c) longevity, mortality, and disease.

Climate and engineering: (a) hydraulics of rivers; (b) prediction of floods; (c) wind pressure and strength of buildings; (d) wind and wind-mills; (e) solar motors; (f) wind and sailing vessels; (g) rainfall, evaporation, and irrigation; (h) flying and aerial navigation.

Climate and manufacturing industries: (a) *drying and curing*, operations in preserving fish, meat, fruit, and the manufacture of paper, salt, etc.; *bleaching*, in the manufacture of cotton and linen; *humidity*, in the spinning of silk, cotton; the harvesting of ice.

Atmospheric dust in relation to rain, geology, vegetation, hygiene,

manufactures. Montgomery J. Storm's Steam-engine and Barnes's Cloudy Condensations.

The relation of the atmosphere to ordnance operations. Two hours.

4. **PHYSIOGRAPHY OR ELEMENTARY PHYSIOGRAPHIC GEOLOGY.**—This course is meant to supplement a course in Elementary Geology, and deals with the origin and development of the forms of the earth's surface. This subject includes the life histories of rivers, lakes, mountains, plateaus, plains, coast lines, continents, islands, etc., and a classification of these different features both with reference to all these classes and to each class as such. Consideration is also given to topographic forms in their relation to climate and to human occupation.

Although an elementary knowledge of geology is necessary for the best understanding of the subject of physiography, the lack of this need not be a bar to entering the course, as complete explanations of geological points will be made when wanted.

The course will occupy two hours a week, one hour being devoted to a lecture, and the second hour (immediately succeeding the lecture if possible) will be taken up in examination and study of the maps, charts, photographs, and models.

If possible, there will be occasional field-lectures in place of laboratory work, when various points in the neighborhood of Washington will be visited and the important features of the local topography pointed out.

Physics and Electrical Engineering.

PROFESSOR WOLFF, Head of Department.

1. General Physics, three hours. First term: Mechanics, Sound, and Heat. Second term: Light, Electricity, and Magnetism. Text-books: Physical Series, Cambridge Science Manuals.

This course will be fully illustrated by experiments, and practical physical measurements will be made before the class.

2. Elementary Mathematical Theory of Electricity. Three hours a week for one term. Text-book: Thompson's Electricity and Magnetism.

3. Dynamo-electrical machinery. Three hours a week for one term. Text-book: Hawkins and Wallis, The Dynamo.

4. Advanced Mathematical Theory of Electricity. Two hours a week for one term. Lectures based on Gerard and Emtage.

5. Dynamo-electric Machinery. Advanced course. Two hours, one term. Text-book: S. P. Thompson, Dynamo-electric Machinery.

6. Technical Applications of Electricity. Two hours a week for one term.

7. Advanced Physics. A mathematical course to acquaint the student with the methods of mathematical physics, and an introduction to more advanced courses in the Graduate School.

8. Physical Chemistry. A short course with special reference to the modern theories of solutions.

9. Physical Laboratory. Three hours. The exercises will include the fundamental measurements and experiments in all branches of Physics. Sabine's Laboratory Manual or Glazebrook's Text-books will be followed.

10. Advanced Laboratory Work. Three hours.

This will include such experiments as those described in the laboratory manuals of Glazebrook and Shaw, Stewart and Gee, and Nichols.

11. Laboratory experiments on testing dynamos and motors and determining their characteristics, etc. Six hours.

12. Inspection of electric plants. In and around Washington are a number of electric-lighting and street-railway plants which afford students of electrical engineering an excellent opportunity of familiarizing themselves with a large number of types of electric machinery.

13. Critical inspection of power plants, followed by a class discussion of the same.

Occasional meetings will be held at which papers on special subjects will be read by advanced students. All interested will be welcome at these meetings.

No regular course in shop-work will be offered at present, but a turning lathe and other tools will be provided, and laboratory students who so desire may familiarize themselves with their use by the construction of various pieces of physical apparatus, plans of which have been prepared.

Romance Languages.

PROFESSOR LODGE, Head of Department.

MR. RAMSEY, Instructor in Spanish, Italian, and Portuguese.

THE FRENCH LANGUAGE.

1. The whole course is especially adapted to scientific students. The class is drilled in French pronunciation, grammar, and composition; exercises in conversation. After some easy French by way of introduction, *Histoire d'un Conscrit* is read. Van Daell's introduction to the French Language is used. Two hours.

2. Critical study of Syntax; composition; dictation. *Le Cid*, *Histoire du Peuple Français*, *Andromaque*, *Bug-Jargal*, and *L'Avare* are read. The "*Revue Scientifique*" is also used instead of a text-book during a part of the year. Two hours.

3. Study of idioms; frequent recitations in French; Composition of French essays; Conversation; Lectures on the development of the French language and literature; selections from *De Staël*, *Hugo*, *Lamartine*, *Souvestre*, *Sandeau*, and *Scribe*. Two hours.

4. A special course in reading, composition, and conversation is offered for students in Course 7 of the Department of Economics. The books read are the standard treatises of the French Political Economists. Periodical economic literature is also read in class. Four hours.

SPANISH.

5. The class is drilled in pronunciation, in hearing the spoken language, and in writing from dictation. The essentials of the grammar are presented, accompanied by practice in reading and conversation. Two hours.

6. More extended presentation of the grammatical structure of the language. Critical and comparative study of syntax and idioms. History and development of the Castilian language and literature. Exercises in literary composition. Reading from standard works of modern Spanish and Spanish-American authors. Two hours.

Text-books: Ramsey's *Text-book of Modern Spanish*; *El Lector Americano*, No. III, and Spanish text to be selected as required.

The course has special reference to the rapidly increasing intercourse between the United States and the Spanish-American Republics, and as much attention as possible is given to the customs, usages, resources, and products of those countries.

ITALIAN.

7. The class is drilled in pronunciation, in hearing the spoken language, and in translating the exercises of the text-book. After the rudiments of the grammar have been mastered the class is led at once to the reading of the easier prose authors, ending with the "*Alberto*" of *De Amicis*. Two hours.

8. Further study of the grammatical construction and the principles of syntax and style. History and development of the Tuscan language and literature. Selections from *Dante Alighieri*, *Petrarca*, *Boccaccio*, *Boiardo*, *Ariosto*, *Tasso*, *Goldoni*, *Pellico*, and *Manzoni*. Two hours.

Text-book: *Cuore's Italian Grammar*.

PORTUGUESE.

9. A course covering one year, for students who have completed Spanish 1 and French 1 (or have made equivalent progress in both languages). The phonology, grammatical structure, and syntax are studied with particular reference to their analogies to Spanish and French, combined with exercises in composition and the reading of a text. Two hours.

Text-book: Elwes's Portuguese Grammar.

HISTORY OF LATIN AMERICA.

10. *a*, The period of discovery, conquest, and colonization. *b*, The struggles for independence. *c*, The era of progress. *d*, Literature and education in Latin America. One hour.

Portions of various works are assigned for reading outside of the classroom.

Slavonic Languages.

PROFESSOR SCHOENFELD, Head of Department.

An introductory course in the Polish language and literature is offered, as the first and richest among the Slavonic tongues, to be followed by Bohemian in the next scholastic year.

1. A Survey of the Polish Grammar, its phonetic laws, its position among the other languages of the Indo-European family, will be given. Reading of easy prose and poetry.

2. Syntactical structure of the Language, its history and foreign elements. Extracts from Mickiewicz's and Kraszewski's master works will be read. A collection of Polish national songs and legendary poetry will be studied.

These courses are introductory to a future graduate department in the Slavonic languages. Students will consult Morfill's *Story of Poland*, *Geschichte von Polen*, Prof. Carvand, Prof. Röppell, and Dr. Schoenfeld's work on "Higher Education in Poland" (U. S. Bureau of Education); his articles on Slavonic literatures in Johnson's *Universal Cyclopaedia*, and his essays on the "Partition of Poland" and "Polish Elements in German Literature."

Zoölogy.

PROFESSOR GILL, Head of Department.

MR. HAY, Assistant.

1. Elements and General Principles of Zoölogy, Packard. Two hours.
2. Natural History of Invertebrates. Two hours.
3. Natural History of Vertebrates. Two hours.

Mechanical Laboratory.

A laboratory has been fitted with benches and tools so as to enable students in Chemistry, Physics, and Engineering to construct apparatus needed in their experimental work and researches.

University Library.

The Library is open every day until 10 o'clock p. m. for purposes of study and inquiry, and is supplied with the leading reviews and periodicals.

University Lectures.

Students of the Corcoran Scientific School are admitted without further fee to the University Lectures; and, when qualified to profit by them, they can secure admission to lectures, other than the law lectures, given in the University Hall, by applying to the Dean.

Final Examinations.

Examinations are conducted under the following rules of the Board of Trustees:

"Examinations for *degrees* in the Columbian College and the Corcoran Scientific School shall be closed at least three weeks before the end of the scholastic year, and the names of all candidates for degrees who have passed a successful examination shall be officially reported, by the Faculty of each, to the President of the Faculties at least two weeks before the date of commencement."

"Examinations for *prizes* in each of the said Departments shall be closed at least three weeks before the end of the scholastic year, and the names of the successful candidates for either shall be reported at least two weeks before the date of commencement."

Requirements for Degrees.

A definite value or weight is assigned to the subjects taught, the unit being, in general, *one recitation a week for a year*, with a satisfactory examination sustained at the close; but this weight varies for laboratory, designing, and field work.

The degree of Bachelor of Science is conferred upon a student who successfully completes one of the full courses offered or other equivalent course, aggregating not less than sixty-eight units, which has been approved by the Faculty.

Scholarships.

Mary Lowell Stone Scholarship, founded as "a memorial to a woman student of science, from a woman, for women students of science," consists of a fund of two thousand dollars, the income from which "is to be paid to needy women, students in the Corcoran Scientific School of the Columbian University, at the discretion of the Dean of said School."

Edward T. Fristoe Scholarship, founded in memory of the first Dean and Professor of Chemistry of the Corcoran Scientific School, consists at present of a fund of three hundred and fifty dollars, the income from which may be paid to some deserving student of chemistry at the discretion of the Dean.

Robertson Scholarship in Accounting, established by Mr. P. W. ROBERTSON during the past year, is awarded on competitive examination, and entitles the holder to free tuition for one year in this subject.

Loan Collection of Text-books.

Through the generosity of Mrs. SUSAN MOORE a collection of text-books has been provided, to be loaned to indigent students at the discretion of the Dean.

Prizes.

The Willie E. Fitch Prize, for highest excellence in all branches of Chemistry, founded by James E. Fitch, Esq., in memory of his son, consists of fifty dollars, which is awarded annually to the student passing the best examination in the Department of Chemistry.

FAVA PRIZE.—To stimulate students in Engineering, prizes are offered by Francis R. Fava, Jr., Professor of Engineering, to students who at-

tain certain standards in the following branches in the several years of the course:

1. Designing problem in Building Construction (2d year); 2, Report on the Engineering Work with which the student has been connected during his vacation (3d year); 3, Investigation in Graphical Statics (4th year); 4, Degree Work.

Prizes 1 to 3 consist of valuable Engineering works, and Prize 4 of a medal.

SCHMIDT PRIZE.—This prize was established by Mr. Fred. A. Schmidt, of Washington, in 1894, and is to hold good for a period of ten years. The prize consists of a set of Alteneder's Drawing Instruments in a leather case, and is awarded to that student entering the second year in either Applied Mathematics or Engineering, who passes highest in a competition examination in Algebra, Geometry, and Mechanical Drawing.

Prize Winners, 1895.

FAVA PRIZE.

PERLY EGBERT STEVENS.

SCHMIDT PRIZE.

FRED. FERGUSON REISNER.

Annual Tuition Fees.

For single studies not involving any laboratory, designing, or field-work.....	\$30 00
For full Courses (in addition to laboratory fees).....	90 00
Laboratory Courses in Chemical Laboratory (except 10).....	100 00
For chemicals used.....	25 00
Deposit (returnable) for apparatus injured.....	25 00
Course 10 in Chemical Laboratory, including cost of material and apparatus.....	50 00
Laboratory Courses in Assaying of Ores and Bullion.....	40 00
For materials used.....	20 00
Laboratory Course in Physical Laboratory.....	30 00
Laboratory Course in Mineralogy.....	60 00
For materials used.....	10 00
Laboratory work, field-work, and designing in Civil and Electrical Engineering.....	20 00
Final fee for diploma.....	10 00

The tuition fees for special technical instruction not included in the above statement will be fixed when demanded, and will be determined largely by the number of students offering themselves in such work.

All fees are payable in advance, unless special arrangement be made with the Treasurer to suit the convenience of the student. Fees for single or for special studies are payable in advance in half-yearly installments. No deduction on account of absence will be made for less time than one-quarter of a scholastic year.

A student desiring to make any change in his course of study or to drop any study *must* inform the Dean of this fact at the beginning of the month and have the change, if approved, indorsed on his matriculation certificate. *Students failing to conform to this requirement are responsible for the fees entered on their certificates until such notice is rendered.*

Text-books.

Abbe, Meteorological Apparatus and Methods, 1887.....		Chase and Stuart, Horace's Selections \$1 00	
Abbe, Progress in Dynamic Meteorology, 1888.....		Chase and Stuart, Tacitus.....	95
Abbe, Short Memoirs on Meteorological Subjects, 1877.....		Chase and Stuart, Juvenal.....	95
Abbe, The Mechanics of the Earth's Atmosphere, 1893.....		Chase and Stuart, Pliny's Letters.....	1 00
Arthur, Barnes and Coulter, Plant Dissection.....	\$1 29	Cooke, Laboratory Practice.....	80
Andersen, Bilderbuch Ohne Bilder.....	30	Cuore, Italian Grammar.....	1 50
Andromaque.....	25	Calderwood, Moral Philosophy.....	1 60
Baker, Masonry Construction.....	4 50	Dana, Text-book of Mineralogy.....	3 15
Barker, Physics.....	3 78	Dana, Manual of Geology.....	3 84
Barker, Elementary Chemistry.....	1 40	Ermage, Electricity and Magnetism.....	1 90
Beers, Outlines of American Literature.....	60	Ereckmann-Chatrian, Histoire d'un Conserit.....	1 00
Bloxam, Chemistry.....	3 60	Fava, Descriptive Geometry Lectures.....	
Blair, Chemical Analysis of Iron.....	3 60	Fava, Graphical Statics Lectures.....	
Bright, Anglo-Saxon Reader.....	1 86	Fava, Mechanics Lectures.....	8 00
Brown, Manual of Assaying.....	2 50	Fenck, Geo-Morphologie, 1895.....	
Burrell, Building Construction.....	80	Ferrel, Popular Treatise on the Winds, 1887.....	4 50
Bowser, College Algebra.....	1 65	Ferrel, Recent Advances in Meteorology, 1885.....	1 00
Bowser, Advanced Trigonometry.....	1 60	Fiske, Civil Government.....	
Bowser, Calculus.....	2 25	Fowler, Inductive and Deductive Logic.....	1 75
Breese, Water Wheels.....	2 25	Fresenius, Qualitative Analysis.....	3 60
Brûg-Jargal.....	3 15	Fresenius, Quantitative Analysis.....	5 40
Clowes, Qualitative Analysis.....	40	Frieze, Quintilian.....	1 20
Cohen, Practical Organic Chemistry.....	2 00	Frve, Complete Geography, 1895.....	1 25
Church, Descriptive Geometry.....	70	Gray, Structural Botany.....	2 00
Chase and Stuart, Cæsar, new edition.....	2 50	Gray, Manual of Botany.....	1 62
Chase and Stuart, Cicero's Orations.....	1 00	Geikie, Text book of Geology.....	7 50
Chase and Stuart, Cicero's De Senectute.....	1 00	Genung, Practical Rhetoric.....	1 40
Chase and Stuart, Vergil's Æneid, 6 books.....	95	Gerard, Leçons sur l'Electricité, 2 vols.....	6 00
Chase and Stuart, Ovid.....	95	Goodale, Physiological Botany.....	2 00
Chase and Stuart, Livy.....	1 10	Gore, Elements of Geodesy.....	2 25
Chase and Stuart, Horace's Odes.....	1 10	Gore, German Science Reader.....	85
		Harkness, Latin Grammar.....	1 12
		Hann, Klimatologie, 1896.....	4 00
		Hann, Determinants.....	1 90
		Hardy, Quaternions.....	2 15

Hauff, Das Kalte Herz.....	\$ 75	Rivington's Building Construction, vol. 1.....	\$3 15
Hempel, Gas Analysis.....	1 90	Rivington's Building Construction, vol. 2.....	3 15
Hinman, Eclectic Physical Geography, 1888.....	1 20	Rivington's Building Construction, vol. 3.....	5 40
Hurst and Whiting, Seneca.....	1 30	Rivington's Building Construction, vol. 4.....	4 00
Holmes, Steam-engine.....	1 60	Rice and Johnson, Differential Calculus.....	3 15
Johnson, Differential Equations.....	3 15	Schoenfeld, German Historical Prose.....	
Johnson, Surveying.....	3 60	Slingo and Brooker, Electrical Engineering.....	2 80
Jevons (Hill), Logic.....	1 00	Shaw, New History of English Literature.....	1 00
Kemp, Ore Deposits of the United States.....	3 60	Sprung, Lehrbuch der Meteorologie, 1885.....	3 00
Ladd, Outlines of Physiological Psychology.....	2 00	Storm, Immensee.....	25
Lamb, Hydrodynamics, 1895.....	6 00	Tarr, Elementary Physical Geography, 1895.....	1 40
Le Conte, Elements of Geology.....	3 20	Thompson, Dynamo-electric Machinery.....	4 80
Le Cid.....	25	Trautwine, Engineer's Pocketbook.....	4 50
Lacombe, Histoire du Peuple Français.....	65	Tuthill, Architectural Drawing.....	2 00
L'Avare.....	25	Thorpe, Quantitative Analysis.....	1 35
Mackenzie, 19th Century.....	1 00	Unwin, Machine Design, vol. 1.....	1 60
Meiklejohn, English Language.....	1 30	Unwin, Machine Design, vol. 2.....	1 20
Merriman, Least Squares.....	1 80	Van Daell, Introduction to French Language.....	1 10
Merriman, Mechanics of Materials.....	3 15	Ward, Flora of Washington, unbound.....	50
Munroe, Chemistry of Explosives.....	3 00	Warren, Descriptive Geometry.....	2 25
McCabe, Bingham Latin Grammar.....	1 08	Wagner, Chemical Technology.....	6 00
McCabe, Bingham Caesar.....	1 08	Wright, Adjustment of Observations.....	4 00
Merrill, Stones for Building and Decoration.....	4 50	Weisbach, Theoretical Mechanics.....	9 00
Nichols, Analytical Geometry.....	1 38	Wells, Plane and Solid Geometry.....	1 50
Nunez El Lector Americano, No. 3.....	50	Wells, Plane and Spherical Trigonometry.....	1 50
Packard, Zoology, Elementary.....	90	Williams, Crystallography.....	1 36
Packard, Zoology, Briefer.....	1 24	Young, General Astronomy.....	2 50
Packard, Zoology, Advanced.....	2 66	Zettel, Handbuch der Paleontologie. Issued in parts; prices vary.	
Phillips, Engineering Chemistry.....	3 20		
Porter, Intellectual Science.....	2 40		
Ramsey, Text-book of Modern Spanish.....	1 98		
Remsen, Organic Chemistry.....	1 30		
Rankine, Applied Mechanics.....	4 50		
Rankine, Machinery and Mill-work.....	4 50		
Rickett, Notes on Assaying.....	2 70		
Richter, Organic Chemistry.....	3 60		

Rooms and Board.

During the year 1895-1896 desirable rooms, convenient to the University buildings, have been offered at \$5 to \$10 per month, and good board has been offered at \$15 to \$20 per month. Lists of persons offering rooms and board can be obtained from the Secretary and Treasurer of the University.

For further information regarding the Corcoran Scientific School, application may be made to

CHARLES E. MUNROE, *Dean,*
The Columbian University.

STUDENTS IN THE CORCORAN SCIENTIFIC SCHOOL.

Candidates for Degrees.

Name.	State.	Address.
John Phipps Alexander.....	Tenn.	815 14th St., N. W.
Fanny May Allen.....	Md.	Anacostia, D. C.
John Elmer Armstrong.....	N. Y.	Pension Bureau.
Robert Stribling Barrett, Jr.....	Va.	2213 Washington Circle, N. W.
George Lowman Beeler.....	Ill.	700 12th St., N. E.
Frederick Brooke Berry.....	D. C.	1318 11th St., N. W.
William Froederick Biehl.....	Ohio	1824 9th St., N. W.
Daniel Thomas Birtwell.....	Penn.	238 Maryland Ave., N. E.
E. Roger Boyle.....	Md.	Hyattsville, Md.
Eugene Bradbury.....	Va.	Arlington, Va.
Archibald Webster Brown.....	Md.	1739 14th St., N. W.
Harry Ashby Burgess.....	D. C.	Cor. 8th and O Sts., N. W.
Charles Fremont Burnside.....	Wash.	Department of Justice.
Clarence Metz Butler.....	Minn.	919 New York Ave., N. W.
Joseph W. Butts.....	N. Y.	1467 Kenesaw Ave., N. W.
John Murphy Caffery.....	La.	220 North Capitol St.
Daniel D. Caldwell.....	Ill.	2020 F St., N. W.
George Homer Campbell.....	Maine....	301 8th St., N. E.
M. Agnes Clancy.....	D. C.	2709 P St., N. W.
S. Clark Cross.....	D. C.	138 11th St., N. W.
George A. Didden.....	D. C.	709 13th St., N. W.
Richard George Doerfling.....	D. C.	509 4th St., N. W.
Aida M. Doyle.....	D. C.	1902 3d St., N. W.
Maurice Owen Eldridge.....	Tenn.	Agricultural Department.
Edmund Percy Ellis.....	D. C.	121 11th St., N. E.
Leon Mover Estabrook.....	Texas....	1801 E St., N. W.
Harry Farmer.....	Iowa....	1437 R St., N. W.
William Thomas Faulkner.....	Miss....	Treasury Department.
Alfredo Victor Gana.....	Chile....	Chilean Legation.
Ph. B., 1893, University of Chile.		
William F. Hackett.....	Md.	Brookland, D. C.
Lewis Tussler Haney.....	Va.	Box 348, Alexandria, Va.
Henry H. Hawling.....	D. C.	2135 L St., N. W.
Roy Bagley Hayes.....	Wis.	626 O St., N. W.

Name.	State.	Address.
Emma Pauline Heald.....	Mass.....	1009 12th St., N. W.
James Edgar Hiatt.....	Ind.....	817 3d St., N. W.
Lillie B. Holbrook.....	Mass.....	943 Westminster St., N.W.
Charles Emerson Hood.....	D. C.....	1017 O St., N. W.
John Bartlett Hull.....	Ga.....	Patent Office.
George Johannes.....	Penn.....	228 Morgan St., N. W.
James P. Keleher.....	D. C.....	409 A St., S. E.
Corrado H. Lanza.....	D. C.....	1601 20th St., N. W.
Noble Lewis.....	D. C.....	1339 Corcoran St., N. W.
Fred. Nelson Libby.....	Wis.....	712 N St., N. W.
John Benjamin Lichty.....	Ill.....	458 C St., N. W.
Carl A. Loeffler.....	Penn.....	1632 P St., N. W.
Guy Bennett Marean.....	D. C.....	1900 Lincoln Ave., N. W.
Ralph Brewster Marean.....	Penn.....	Brookland, D. C.
Victor Louis Mason.....	D. C.....	1528 Corcoran St., N. W.
Adelia Estelle Matthewson.....	N. Y.....	1910 8th St., N. W.
Orton Love Meigs.....	D. C.....	325 2d St., S. E.
Ferdinand Emil Molkow.....	N. Y.....	46 K St., N. E.
Frederick W. Moore.....	Penn.....	1401 H St., N. W.
Martin Joseph Nolan.....	Penn.....	69 K St., N. E.
Charles C. Owens.....	Md.....	Hyattsville, Md.
Charles Lieberman Parker.....	D. C.....	1425 Corcoran St., N. W.
Edwin Geary Paul.....	Penn.....	1454 Staughton St., N.W.
Joseph Saxton Pendleton.....	D. C.....	1752 M St., N. W.
Gaston Pierson Philip.....	D. C.....	1230 Connecticut Ave., N. W.
Edward G. Portner.....	D. C.....	1104 Vermont Ave., N.W.
James Witherow Purman.....	Penn.....	1435 Chapin St., N. W.
Fred. Ferguson Reisner.....	Mo.....	323 Maple Ave., N. W.
Audubon Wheelock Ridgway.....	D. C.....	Brookland, D. C.
Thomas Caldwell Ridgway.....	Ill.....	1632 17th St., N. W.
Guy Longfellow Seaman.....	Iowa.....	Takoma Park, D. C.
Edward R. Shane.....	D. C.....	818 9th St., N. W.
Frank Eugene Skinner.....	Wis.....	Takoma Park, D. C.
Ida I. Summerscales.....	D. C.....	1714 5th St., N. W.
Thomas Charles Taylor.....	Ohio.....	117 7th St., N. E.
John A. Thompson.....	D. C.....	1720 H St., N. W.
George Carroll Todd.....	Va.....	3169 P St., N. W.
Edwin Briggs H. Tower, Jr.....	D. C.....	1515 17th St., N. W.
Mayville William Twitchell.....	N. Y.....	709 8th St., N. E.

Name.	State.	Address.
Lineas D. Underwood.....	Ohio.....	707 12th St., N. W.
Ferdinand Claiborne Walsh.....	Md.....	1504 H St., N. W.
Francis R. Weller.....	D. C.....	408 C St., S. E.
Horace G. Welty.....	Md.....	College Park, Md.
Henry Clinton Wilson.....	Md.....	1318 G St., N. W.
Richard Winckelmann.....	D. C.....	1122 7th St., N. E.

Candidates for degrees..... 78

Special Students.

Name.	State.	Address.
Hortense Alexander.....	Texas.....	1217 M St., N. W.
Alexander Marshall Allison.....	N. Y.....	726 N. J. Ave., N. W.
Ethel Marie Arms.....	D. C.....	Chevy Chase, Md.
Caroline H. Arms.....	D. C.....	1525 L St., N. W.
Julius Leopold Arntzen.....	Mo.....	1706 F St., N. W.
Lucy Y. Arrick.....	D. C.....	1131 14th St., N. W.
Frank Lloyd Averill.....	N. Y.....	1479 Columbia Road, D. C.
C. E., 1891, Columbian University.		
Vernon Bailey.....	Minn.....	1707 P St., N. W.
Brook M. Baker.....	D. C.....	1819 H St., N. W.
Charles Mason Baker.....	D. C.....	1739 19th St., N. W.
Thomas Morrow Barbee.....	Mo.....	Kendall Green, D. C.
Virgie S. Bates.....	D. C.....	1308 16th St., N. W.
Frances M. Bickford.....	D. C.....	1912 15th St., N. W.
David Holmes Blakelock.....	D. C.....	619 6th St., S. W.
Louis T. Boisseau.....	D. C.....	619 6th St., S. W.
Fannie C. Brewer.....	Md.....	1213 M St., N. W.
M. D., 1895, Columbian University.		
Martha M. Brewer.....	Mass.....	Lanham, Md.
Alfred Hulse Brooks.....	N. Y.....	Geological Survey.
A. B., 1894, Harvard University.		
Cobrun Lee Broun.....	Va.....	1805 13th St., N. W.
Harriet Louise Cameron.....	Minn.....	250 9th St., N. E.
Blanche Campbell.....	D. C.....	430 N. J. Ave., N. W.
Ada Carman.....	D. C.....	1351 Q St., N. W.
Fountaine L. Carswell.....	Ga.....	915 I St., N. W.
Edward MacKay Chace.....	D. C.....	1206 6th St., S. W.

Name.	State.	Address.
Edwin R. Conner.....	D. C.....	1721 Corcoran St.
Lewis C. Coonwell.....	Iowa.....	120 E St., N. E.
Thomas L. Costigan.....	Del.....	202 Arthur Place, N. W.
Carl Frederick Théodore Cott.....	D. C.....	Bladensburg Road, D. C.
Theodosia O. Culver.....	S. C.....	1606 K St., N. W.
Zachary Lewis Dalby.....	Va.....	627 Maryland Ave., N. E.
Mary Owen Dean.....	D. C.....	618 Massachusetts Ave., N. W.
Luman Millott Ellis.....	Ohio.....	1707 19th St., N. W.
Charles Russell Ely.....	Md.....	Kendall Green, D. C.
A. B., —, Yale University.		
William Henry Ernul.....	N. C.....	1450 Corcoran St., N. W.
William W. Everett.....	D. C.....	903 S St., N. W.
Charles Fair.....	D. C.....	134 6th St., N. E.
Bolivar Lang Falconer.....	Texas.....	Civil Service Commission.
Arthur Le Roy Fill.....	D. C.....	1846 Wyoming Ave., N. W.
Louis A. Fischer.....	D. C.....	510 I St., N. W.
Frank D. Fletcher.....	N. Y.....	1700 14th St., N. W.
Isaac N. Fluckey.....	Ill.....	1304 W St., N. W.
Ella May Ford.....	Va.....	55 Q St., N. E.
Charles N. Forrest.....	Md.....	809 N. Gilmer St., Balti- more, Md.
William Joseph French.....	D. C.....	1917 S St., N. W.
Frank Duane Gardner.....	Ill.....	212 12th St., S. W.
Harry S. Garner.....	Penn.....	Department of State.
Henry Wise Garnett.....	D. C.....	416 5th St., N. W.
Amanda E. Garrett.....	Ind.....	1012 15th St., N. W.
Ellen Golden.....	N. Y.....	1714 Q St., N. W.
Lee Roberts Grabill.....	D. C.....	1413 V St., N. W.
James Richard Hamilton.....	Texas.....	522 3rd St., N. E.
Julian O. Hargroove.....	D. C.....	3310 N St., N. W.
Franklin W. Hart.....	D. C.....	1321 11th St., N. W.
William Harvey Hatch, Jr.....	Va.....	Arlington, Va.
Charles W. Heider.....	D. C.....	Brentwood Road, D. C.
William Eldridge Hillyer.....	Fla.....	412 A St., S. E.
Katherine W. Hobgood.....	La.....	1231 I St., N. E.
Walter A. Holden.....	Conn.....	Hotel Lincoln.
N. Monroe Hopkins.....	D. C.....	1730 I St., N. W.
William Hopkins.....	D. C.....	1324 18th St., N. W.
Charles E. Howe.....	Penn.....	1405 G St., N. W.

Name.	State.	Address.
John Rees Hudson, Jr.	Ga.	Geological Survey.
Albert Howard Johnson	D. C.	1706 9th St., N. W.
William A. Johnson	N. C.	1300 Pennsylvania Ave., N. W.
Philip M. Julien	D. C.	Brookland, D. C.
William Houston Kerr	Mo.	1330 T St., N. W.
Louis Peter Keyser	D. C.	2019 Massachusetts Ave., N. W.
Mineola Kirkland	D. C.	1106 B St., N. W.
Nannie E. Kuhlmann	Mo.	1218 6th St., N. W.
Fred. W. Lepper	D. C.	825 D St., N. E.
Annie Johnstone Lewis	N. C.	1507 Vermont Ave.
Reeve Lewis	D. C.	620 F St., N. W.
George M. Lukesh	Ohio	1732 P St., N. W.
William M. Lytle	Ohio	812 Connecticut Ave., N. W.
Paul Bishop McConville	Ohio	1921 K St., N. W.
Martin J. McPike	D. C.	812 1st St., N. W.
Janet McWilliam	D. C.	2142 K St., N. W.
Horace Mann	Iowa	1613 Florida Ave.
B. S., 1893; M. S., 1895, Columbian University.		
Lizzie Edna Marshall	D. C.	1908 H St., N. W.
Thomas Herbert Means	D. C.	Brookland, D. C.
Edith W. Meloy	D. C.	118 C St., N. W.
William Curran Mendenhall	Ohio	Geological Survey.
Margaret J. Merrilat	D. C.	1430 8th St., N. W.
Frederick P. Metzger	D. C.	320 2nd St., S. E.
Robert Miller	D. C.	636 15th St., N. E.
Joseph S. Mills	Md.	1132 10th St., N. W.
A. B., 1890; A. M., 1893, Western Maryland College.		
Thomas J. Murray	D. C.	423 New York Ave., N. W.
Louis Peter Naylor	N. J.	802 North Capitol St.
C. Ashford Neale	Va.	119 Payne St., Alexan- dria, Va.
Frederick H. Newell	Penn.	1330 F St., N. W.
Nathaniel Paige, Jr.	D. C.	1334 Massachusetts Ave., N. W.

THE CORCORAN SCIENTIFIC SCHOOL.

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Name. State. Address.

Richard Gantt Paine.....	S. C.....	1416 Rhode Island Ave., N. W.
Charles Preston Phelps.....	D. C.....	113 3d St., N. E.
Francis Elmer Phelps.....	Md.....	532 6th St., S. E.
Julian Irving Pierce.....	Mich.....	514 2d St., N. W.
George F. Plugge.....	D. C.....	474 Pennsylvania Ave., N. W.
William Schuyler Post.....	Ill.....	1738 Q St., N. W.
Morris Price.....	D. C.....	412 B St., N. E.
Chester W. Purington.....	Mass.....	Geological Survey. A. B., 1893, Harvard University.
Mary Meade Raborg.....	D. C.....	1643 19th St., N. W.
Doctrine Hugh Reed.....	N. C.....	915 I St., N. W.
Luther H. Reichelderfer.....	Ohio.....	1205 Q St., N. W.
Mark Riley.....	Texas.....	523 New Jersey Ave., N. W.
Louis Carberry Ritchie.....	D. C.....	3259 N St., N. W.
Asa Daniel Roberds.....	Fla.....	222 3d St., N. W.
Carolie C. Robinette.....	Penn.....	301 Maryland Ave., N. E.
J. Arthur Rose.....	D. C.....	941 T St., N. W.
William Percy Rose.....	D. C.....	1300 Pennsylvania Ave., N. W.
Arthur B. Russ.....	Maine.....	9 9th St., S. E.
Salvador Sanders.....	D. C.....	538 11th St., S. E.
Harold N. Saxton.....	N. Y.....	Civil Service Commission.
William D. Searle.....	N. Y.....	1131 12th St., N. W.
Lottie M. Shade.....	D. C.....	1232 14th St., N. W.
Abbie M. Sisson.....	Ohio.....	440 K St., N. W.
Jessie Marion Smith.....	Cal.....	917 G St., N. W.
Gertrude Spear.....	Mo.....	801 C St., S. W.
Joseph C. Stack.....	D. C.....	743 2d St., N. W.
G. Faber Stevenson.....	Ohio.....	911 W St., N. W.
William Francis Sullivan.....	D. C.....	930 Delaware Ave., N. E.
Alexander Summers.....	Tenn.....	Bureau of Education. A. M., University of Tennessee.
William H. Syme.....	W. Va.....	643 East Capitol St.
Francis E. Taylor.....	Md.....	134 F St., N. E.
J. Ford Thompson, Jr.....	D. C.....	804 17th St., N. W.
Augustus B. Tolman.....	Mass.....	905 Westminster St., N. W.
Emma Harper Turner.....	Ind.....	1320 Corcoran St., N. W.

Name.	State.	Address.
Frederick Tyers.....	Kans.	825 13th St., N. E.
Albert Mynard Walker.....	Iowa.....	1000 New Hampshire Ave., N. W.
James W. G. Walker.....	Mass.....	1202 18th St., N. W.
George H. Wells.....	Ill.	Takoma Park, D. C.
Sara West.....	Germany..	203 G St., N. W.
Nellie Wheeler.....	Mo.....	626 B St., S. W.
Harry B. White.....	D. C.....	802 D St., S. W.
Mabel Whitcomb.....	Kans.	1906 3d St., N. W.
Thomas A. Witherspoon.....	Tenn.	1217 K St., N. W.
Graduate U. S. N. A.		
Albert S. Woollen.....	Ind.	722 3d St., N. E.
Henry C. Workman.....	Mich.	415 3d St., N. W.
Winfield F. Works.....	D. C.....	1541 9th St., N. W.
Albert F. Zust.....	Iowa	222 3d St., N. W.

Special students..... 139

Total..... 217

THE SUMMER SCHOOL.

The Faculty.

THE REV. BENALIAH L. WHITMAN, D. D.,
President.

HOWARD L. HODGKINS, PH. D.,
Director.

LEE DAVIS LODGE, PH. D.,
Professor of French.

FRANCIS R. FAVA, JR., C. E.,
Professor of Applied Mathematics and Civil Engineering.

HERMANN SCHOENFELD, PH. D.,
Professor of German.

J. MACBRIDE STERRETT, D. D.,
Professor of Philosophy.

ANDREW F. CRAVEN, PH. D.,
Professor of Economics.

EDWARD FARQUHAR, PH. D.,
Professor of English History and Literature.

H. GRANT HODGKINS, A. B.,
Instructor in Mathematics.

MARATHON MONTROSE RAMSEY, A. M.,
Instructor in Spanish, Italian, and Portuguese and Secretary of the
Faculty.

FRANK L. AVERILL, C. E.,
Instructor in Civil Engineering.

ERNEST L. THURSTON, C. E.,
Instructor in Latin and Mechanical Drawing.

PETER FIREMAN, PH. D.,
Instructor in the Physical Sciences and Russian.

JOHN SCOTT JOHNSON, A. M.,
Assistant in Applied Mathematics and Civil Engineering.

EDWARD A. MUIR,
Assistant in Mechanical Drawing.

EMIL H. MEYER,
Instructor in Fine Arts.

P. E. STEVENS, C. E.,
Assistant in Applied Mathematics and Civil Engineering.

The Summer School of The Columbian University, which was established as a branch of the Corcoran Scientific School, held its first session from July 1 to August 12, 1894.

The class-work of the Summer School for 1895 commenced on Monday, June 17, and continued for six weeks. The hours of instruction were from 4 to 8 p. m.

The class-work for 1896 will begin June 15, and will continue until July 28.

COURSES OF INSTRUCTION.

Applied Mathematics.

PROFESSOR FAVA.
MR. JOHNSON.
MR. STEVENS.

1. Elements of Applied Geometry. Four hours.

This course (see "Applied Mathematics, 1") is compulsory in the first year of the regular course. It is offered in the Summer School, in advance of the regular work, to enable students better to follow the courses of the regular session.

2. Elements of Descriptive Geometry and Projection. Two hours.

An informal course, conducted on the Seminary plan, especially intended for teachers in public schools.

3. Some difficult problems in stone-cutting.

REVIEW COURSES.

4. Descriptive Geometry. Two hours.
5. Perspective. Two hours.
6. Elementary Mechanics. Two hours.
7. Graphic Statics. Two hours.

Courses 4 to 7 are practical reviews of the regular courses, and have been arranged for the benefit of full-course students, as well as for others desiring to acquire more familiarity with these subjects.

Philosophy.

DR. STERRETT.

1. A course in Pedagogics.
Text-book: Rosenkranz.
2. Courses in Philosophy, subject to arrangement.

Civil Engineering and Building Construction.

PROFESSOR FAVA.

MR. AVERILL.

MR. JOHNSON.

MR. STEVENS.

1. Elements of surveying. For beginners. Six hours.
2. Railroad curves and advanced surveying. Six hours.
3. In August: A course in elementary surveying, of ten working days *in the field*. For not less than ten nor more than twenty students.
4. In August: A course of *field practice* in railroad and engineering field-work, for ten working days. For not less than ten students.
5. In September: A week's tour, to visit the engineering works of the principal neighboring cities. For not less than ten nor more than thirty students.

Students participating in courses 3, 4, and 5 will be required to pay their own board and traveling expenses.

6. Elements of building construction, with practical demonstrations on buildings in course of erection. Four hours.

7. A special course in street railroads, with practical inspection of the railroads of this city and Baltimore. For not less than ten students. Four hours.

8. A special course in cement testing. Two hours.
9. Bridge-building considered historically. Two hours.
10. Photography applied to engineering, with practice. Four hours.

Economics.

DR. CRAVEN.

1. Finance. Three hours.
The Science of Money and Credit, with especial reference to present conditions in the financial world.—Lectures, notes, collateral reading from Walker, Macleod, Cohn, and others.
2. Politics. Three hours.
Fundamental principles of government by the people; organization and functions of the Township, County, City, and State.—Diagrams, lectures, notes, readings, and reviews.
3. Political Economy. Three hours.
Short text-book studies from Adam Smith, Ricardo, Mill, and Marshall. A complete outline of Political Economy will be given.
4. International Law. Three hours.
Sources, purposes, and *economic* effects and benefits of International Law.—Texts: Woolsey and Gallaudet.

Fine Arts.

MR. MEYER.

1. Lessons from Nature. Landscapes in pencil, wash, and color. Two hours.
2. Free-hand drawing applied to architecture and civil engineering. Two hours.

French.

DR. LODGE.

1. The rudiments of French. Two hours.
2. French literature of the XVIIIth century. Two hours.
3. Special courses, subject to arrangement. Two hours.

German.

DR. SCHOENFELD.

1. Training in elementary grammar; systematic exercises in conversation, with readings from *Bilderbuch ohne Bilder* and *Immensee*. Two hours.
2. German syntax; conversation; readings from the novelists, and a study of Lessing. Two hours.
3. An advanced course in German literature and history. Two hours.

History and Literature.

DR. FARQUHAR.

The scope of the courses in History and Literature will be determined upon consultation with the students.

Italian.

MR. RAMSEY.

1. Elementary course, for beginners. Two hours.
This course is intended to take the student through the rudiments of the grammar and enable him to read easy prose.
 2. Italian phonetics. Two hours.
A course offering thorough drill in the quality and quantity of Italian voice-sounds, pronunciation, and expression. Designed especially for students of vocal music.
 3. Advanced course. Two hours.
Some one masterpiece of Italian literature will be read and discussed, accompanied with exercises in composition.
- Text-books: Grandgent's Italian Grammar and Composition.

Latin.

MR. THURSTON.

1. A course in the rudiments of Latin, including a study of the essentials of Latin Grammar and practice in simple exercises. Three hours.
2. A course in reading Latin; Latin Grammar Exercises. Three hours.

Mathematics.

MR. HODGKINS.

1. Algebra. Four hours.
2. Plane Geometry. Four hours.
3. Plane Trigonometry. Four hours.

These courses are designed primarily for beginners, and are intended to carry the student through simple equations in Algebra; through two books of Plane Geometry, and through Plane Trigonometry. The Instructor will strive to give the student a solid foundation in these branches.

Should a sufficient number apply, classes will be formed for a rapid review of Algebra, Plane and Solid Geometry, and Plane and Spherical Trigonometry.

Mechanical Drawing.

MR. THURSTON.

1. Mechanical Drawing as applied to Patent Office work.

Practice in mechanical shading and expression. Practice in model drawing from Patent Office models. Three hours (with several hours extra practice).

MR. MUIR.

Two short courses, of four hours each, in Mechanical Drawing, as applied to machine-shop practice.

1. A course in the elements of projection, for beginners.
2. A course in working drawings, details, and general practice.

The drawing-room will be open each evening from 6 to 8 to accommodate students who desire extra practice.

Physical Science.

DR. FIREMAN.

A. Physics:

Introduction to the study of physics, embracing the general properties of matter and the different forms of energy. Three hours.

B. Chemistry:

1. Introduction to the study of chemistry.
2. Drill in chemical calculations and the writing and reading of formulas.

Portuguese.

MR. RAMSEY.

1. An elementary course, covering the rudiments of the grammar, with reading exercises. Two hours.
2. The phonology, syntax, and word-formation of the Portuguese language in their relation to Spanish and Latin. One hour.

Russian.

DR. FIREMAN.

1. A course in elementary grammar, with reading of Russian tales. Three hours.
2. A more advanced course will be arranged to meet the desires of applicants.

Spanish.

MR. RAMSEY.

1. Elementary course (similar to course 1 in Italian). Two hours.
2. Practice in conversation and newspaper reading. (No English spoken.) Two hours.
3. Spanish literary style, the principles of criticism, syntax, and rhetoric. Two hours.

Text-book: Ramsey's Text-book of Modern Spanish.

Tuition.

The fee for a single course is ten dollars. The payment of twenty dollars admits the student to all the courses. Only those courses are given for which a sufficient number of applicants present themselves. The number of hours mentioned under each course means hours a week. Classes are open to students of either sex.

Particular attention is called to the fact that each course when completed will constitute a definite unit of work, which will be accepted by the University in lieu of the same work in the Columbian College or in the Corcoran Scientific School. Attention is also invited to the unusual facilities for language-study here provided, instruction being offered in nine different languages.

For further information address Howard L. Hodgkins, Ph. D., Director of the Summer School.

Students in the Summer School, 1895.

Name.	Address.
John Elmer Armstrong, New York,	Pension Bureau.
William Frederick Biehl, Ohio,	1820 9th St., N. W.
Frank Lee Biscoe, District of Columbia,	813 21st St., N. W.
Bernard James Collins, District of Columbia,	1503 Caroline St., N. W.
Lewis C. Conwell, Iowa,	202 E St., N. W.
Zelma Rigby Davis, California,	1432 R St., N. W.
Frank Dexter Fletcher, New York,	1332 R St., N. W.
Weston Brown Flint, District of Columbia,	1323 S St., N. W.
I. N. Fluckey, Illinois,	War Department.
George Emery Green, Massachusetts,	1123 3d St., N. W.
N. S. D. Harrison,	1617 17th St., N. W.
Charles George Hodge, District of Columbia,	2139 K St., N. W.
Albert Howard Johnson, District of Columbia,	1706 9th St., N. W.
Thad. H. Libby, District of Columbia,	McGill Building.
Frederick Carl Lutz, District of Columbia,	1904 9th St., N. W.
N. M. Miller, Illinois,	6 Iowa Circle
E. Elmer Mitchell, Iowa,	318 3d St., N. W.
Carrie B. Norman, Mississippi,	1017 12th St., N. W.
Roger Temple Orrison, Virginia,	10 5th St., N. E.
T. S. Palmer, District of Columbia,	1104 P St., N. W.
C. Preston Phelps, District of Columbia,	113 3rd St., N. E.
J. Stewart Rice, District of Columbia,	1323 S St., N. W.
Frederick Ferguson Reisner, Missouri,	3330 Maple Ave., N. W.
A. J. Scott,	923 Maryland Ave., S. W.
August B. Tolman, Massachusetts,	905 Westminster St., N. W.
William Krafft Ward, District of Columbia,	1756 Pennsylvania Ave., N. W.
Frank B. Whitaker, District of Columbia,	1928 15th St., N. W.

Total..... 27

DEPARTMENT OF UNIVERSITY EXTENSION.

CHARLES T. SEMPERS, A. M., DIRECTOR.

The object of University Extension is to provide the means of higher education for persons without interfering with the regular occupations of life.

This is accomplished by means of—

The Lecture Course.

The Class Course.

The Correspondence-study Course.

THE LECTURE COURSE.—In order to make the Lecture Course attractive to persons desiring merely a general acquaintance with the subjects taught, as well as to students who are anxious to make a more thorough study, a special method is followed.

LECTURERS.—The lecturers are either professors in The Columbian University or persons specially approved by the University.

THE CLASS COURSE usually consists of a series of ten weekly meetings with the lecturer, each meeting occupying about one hour. Personal teaching, study, and discussion, following a required text-book, take up the entire time.

THE CORRESPONDENCE-STUDY COURSE is conducted by mail. It consists of forty weekly exercises written by the student under the direction of an instructor. A student may begin a course at any time of the year.

EXPENSE.—The fee for the Lecture Course is \$130. The fee for the Class Course is \$75. These fees are due at the time of the second meeting from the center or class as a whole to the office. The cost to the individual varies according to the number of members in the center or class. The price of course tickets has usually been between \$1 and \$2.50. The fee for the Correspondence Course is \$20.

For circulars giving detailed information, address—

DIRECTOR UNIVERSITY EXTENSION,

THE COLUMBIAN UNIVERSITY,

WASHINGTON, D. C.

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THE GRADUATE SCHOOL.

Faculty.

THE REV. BENAIHAH L. WHITMAN, D. D.,
President.

CHARLES E. MUNROE, PH. D.,
Dean and Professor of Chemistry.

THE REV. ADONIRAM J. HUNTINGTON, D. D.,
Professor of Greek.

THE REV. SAMUEL M. SHUTE, D. D.,
Emeritus Professor of English.

ANDREW P. MONTAGUE, PH. D.,
Professor of Latin.

JAMES HOWARD GORE, PH. D.,
Professor of Mathematics.

LEE DAVIS LODGE, PH. D.,
Professor of French and Political Philosophy and Secretary of the
Faculty.

D. KERFOOT SHUTE, A. B., M. D.,
Professor of Anatomy.

FRANCIS R. FAVA, JR., C. E.,
Professor of Civil Engineering.

THEODORE N. GILL, PH. D.,
Professor of Zoölogy.

CLEVELAND ABBE, A. M.,
Professor of Meteorology.

HERMANN SCHOENFELD, Ph. D.,
Professor of German.

THE REV. J. MACBRIDE STERRETT, D. D.,
Professor of Philosophy.

EDGAR FRISBY, A. M.,
Professor of Astronomy.

WILLIAM C. WINLOCK, A. B.,
Professor of Astronomy.

WILLIAM T. HARRIS, LL. D.,
Professor of Philosophy.

EMIL A. DE SCHWEINITZ, Ph. D.,
Professor of Bio-Chemistry.

FRANK W. CLARKE, S. B.,
Professor of Mineral Chemistry.

HARVEY W. WILEY, Ph. D.,
Professor of Agricultural Chemistry.

THE REV. FRANK H. BIGELOW, A. M.,
Professor of Solar Physics.

GEORGE P. MERRILL, Ph. D.,
Professor of Geology.

HOWARD L. HODGKINS, Ph. D.,
Professor of Mathematics.

EDWARD FARQUHAR, Ph. D.,
Professor of History.

H. CARRINGTON BOLTON, Ph. D.,
Professor of Bibliography and Bibliology.

LOUIS AMATEIS,
Professor of Fine Arts as Applied to Architecture.

COLUMBIAN UNIVERSITY.

FRANK A. WOLFF, Ph. D.,
Professor of Electrical Engineering.

F. LAMSON-SCRIBNER, B. Sc.,
Professor of Botany.

GEORGE J. SMITH, Ph. D.,
Professor of English.

JOSEPH C. HORNBLOWER,
Professor of Architecture.

HANS ZOPKE,
Professor of Mechanical Engineering.

C. F. MARVIN, M. E.,
Associate Professor of Meteorology.

ELMER S. FARWELL, C. E.,
Associate Professor of Mechanical Engineering.

OTIS T. MASON, Ph. D.,
Lecturer on Anthropology.

Board of Directors of University Studies.

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LEE DAVIS LODGE, Ph. D., Secretary, and Professor of French and
Political Philosophy.
HERMANN SCHOENFELD, Ph. D., Professor of German.
THE REV. J. MACBRIDE STERRETT, D. D., Professor of Philosophy.
THE REV. FRANK H. BIGELOW, A. M., Professor of Solar Physics.

The School of Graduate Studies was established by order of the Corporation of the University at the annual meeting in 1892, and was opened for the reception of students on Thursday, the 5th of October, 1893. The Fourth Session will begin September the 30th, 1896.

The School will be opened each year with a public address by a member of the Faculty.

Degrees.

The degrees of Master of Arts (A. M.), Master of Science (M. S.), Civil Engineer (C. E.), Electrical Engineer (E. E.), Mechanical Engineer (M. E.), and Doctor of Philosophy (Ph. D.) are conferred on members of the Graduate School under such regulations as may be established from time to time by the Board of Directors; but no graduate student will be regarded as a candidate for any advanced degree until he shall have been admitted to such candidature by the Board of Directors.

The Masters' Degrees.

Persons holding the degree of Bachelor of Arts from institutions of repute are qualified to enter as candidates for the degree of Master of Arts, and those holding the degree of Bachelor of Science for the degree of Master of Science.

Candidates for a Master's degree to be eligible shall pass one year at this University in the advanced study of at least one subject, and shall sustain a satisfactory examination and present an acceptable thesis.

Engineering Degrees.

Persons holding the degree of Bachelor of Science in Engineering courses, or its equivalent, from institutions of repute are qualified to enter as candidates for the degrees of Civil Engineer, Mechanical Engineer, and Electrical Engineer.

Candidates to be eligible shall pass one year at this University in the advanced study of engineering subjects, shall sustain a satisfactory examination in these subjects, and shall present a satisfactory thesis.

Doctors' Degrees.

Persons holding the degree of Master of Science, Master of Arts, or their equivalent; from institutions of repute are qualified to offer themselves as candidates for the degree of Doctor of Philosophy.

Candidates for the degree of Doctor of Philosophy shall offer themselves

in three topics for advanced study—one major and two collateral minor subjects. Before being admitted as candidates they shall pass satisfactory examinations in French and German, and shall pay an examination fee of five dollars for the examination in each of those languages.

To be eligible for the degree, candidates who hold Masters' degrees shall pass two years in the study at this University of their major topic and one year in the study of each minor topic; they shall sustain satisfactory examinations upon the three subjects which they may have elected, and they shall present theses, accompanied with an exhaustive bibliography, embodying the results of original research in their major subject, which theses they shall be prepared to defend before a board of experts.

Fees.

The matriculation fee of candidates for any degree conferred in this School is ten dollars.

The annual fee for instruction and direction of candidates for Masters' degrees is thirty dollars.

The annual fee for instruction and direction of candidates for an Engineering or a Doctor's degree is ninety dollars.

Where laboratory courses are taken, whether for a Master's, an Engineering, or a Doctor's degree, the fee in excess of the above-mentioned will be fixed by the Corporation.

The fee for a diploma is ten dollars.

Commencement.

Candidates for degrees are expected to appear at the Commencement Exercises in academic caps and gowns.

Theses.

All theses must be presented on the official thesis paper of the University, and they must be typewritten when possible. Official Thesis Paper can be purchased from the Treasurer of the University.

All theses, with their accompanying drawings, are the property of the University, and must be deposited in the University archives; but authors are permitted to make copies by applying to the Dean.

Candidates who receive the degree of Doctor of Philosophy are expected to have their theses printed as early as practicable after graduation and present fifty copies of the printed thesis to the University through the Dean, to be distributed among learned institutions.

Final Examinations.

Examinations are conducted under the following rules of the Board of Trustees:

"Examinations for *degrees* shall close at least five weeks before the end of the scholastic year, and the names of all candidates for degrees who have passed a successful examination shall be officially reported, by the Faculty of each, to the President of the Faculties at least three weeks before the date of the commencement."

Courses of Study in the Graduate School.

The following courses are offered to students in the Graduate School. Candidates for the degree of Doctor of Philosophy will be required to select their major subject from among those enumerated below, but the minor subjects may be chosen from among any offered in the University which may prove acceptable to the Board of Directors.

English.

PROFESSOR SMITH.

Graduate studies in this school are offered in the following courses *in addition to the elective courses already named*.^{*} For the degree of Master of Arts four approved courses must be elected and completed. Two years' subsequent study is requisite for the degree of Doctor of Philosophy.

1. The *Béowulf*. (Course 5* or its equivalent is a prerequisite.)
2. Gothic, and introduction to Germanic Philology.
3. Old French, in relation to English; phonology, inflections, reading. (Ability to use French and German text-books is presupposed.)
4. Old English, readings from Morris or from Mätzner's *Altenglische Sprachproben*. Knowledge of Anglo-Saxon and Old French is prerequisite.
5. The Early English Metrical Romances.
6. Research courses in special authors or periods or in the philosophical history of English or American literature.

^{*} See English Courses, Corcoran Scientific School.

Greek.

PROFESSOR HUNTINGTON.

To candidates for the Master's Degree one of the following courses is offered:

- I. Herodotus and Thucydides.
- II. Homer (parts of the Iliad and Odyssey not read in the undergraduate course) and the Lyric Poets.
- III. The Attic Orators.

To candidates for the degree of Doctor of Philosophy two of the following courses are proposed:

- I. Any two of the courses offered above for the Master's Degree except the one already pursued for that degree.
- II. The Tragic Poets.
- III. Plato or Aristotle.

Latin.

PROFESSOR MONTAGUE.

Three courses are offered, and selections are made from those works of the authors named below which are not usually read by undergraduates:

- I. Plautus, Cicero, Tacitus.
- II. Terence, Livy, Pliny the Younger.
- III. Lucretius, Catullus, Seneca, Justinian (Institutes).

In connection with each course the following subjects will be studied:

1. Fragments of Early Latin; Latin Inscriptions (Allen).
2. Roman Versification (Platner).
3. The History of Roman Literature (Cruttwell).
4. Critical Study of Syntax (Peters; Roby).
5. Latin Composition (Translations from prose authors to be rendered without preparation into Latin).
6. Monthly Essays in Latin upon the authors and their times.
7. Papers upon the peculiarities of authors and upon the obligations of modern to ancient writers, and abstracts of works assigned.
8. Review of Roman History; Study of Epochs.
9. Roman Antiquities (Dr. Smith; Rich).
10. Comparative Philology.
11. An exhaustive bibliography of each of the authors read.

For Master of Arts, any one course; for Doctor of Philosophy, any two courses.

French Philosophy.

PROFESSOR LODGE.

I. (a.) A Summary of Greek and Roman Philosophy, with a view to establishing the continuity of French thought.

Weber's *Histoire de la Philosophie Européenne*.

(b.) Germinal Forms of French Philosophy, implicit in the Literature of France before the Seventeenth Century.

(c.) Mediæval French Philosophy.

II. Descartes: The Evolution of Cartesianism, and Influence of Descartes on Modern Thought.

III. The Eighteenth Century; Voltaire; Condillac; l'*Encyclopédie*.

IV. The Nineteenth Century; Cousin and Eclecticism; Comte and Positivism; Recent Philosophy; Spiritualistic, Jouffroy, Jules Simon, Janet; Empirical, Ribot.

V. French Theory of the State; La Boétie, Bodin, Voltaire, Rousseau, Montesquieu.

Students taking courses in French speculative philosophy are advised to take also one or more of the courses in German philosophy offered by Dr. Sterrett.

VI. The History of Civilization in France, based upon the works of the standard historians of France, particularly Guizot, Michelet, and Taine. Students in this course must be able to read the French of Villehardouin, Joinville, Froissart, and Communes.

The completion of any one of the above courses will entitle the student to the degree of Master of Arts, and the completion of any two will be accepted as a major subject for the degree of Doctor of Philosophy.

In all these graduate courses constant use will be made of the valuable sources of original research which are accessible to students in the libraries of the several Departments of the Government and of Congress.

German and Continental History.

PROFESSOR SCHOENFELD.

I. Literary Awakening in Germany in the time of Frederick the Great; critical study of the literary centers, Leipzig, Zürich, Berlin; the literary revolution and the Illuminati; critical investigation of Klopstock's *Odes* and Wieland's *Oberon*.

- II. History of the Second Classical "Blüteperiode" to the time of Schiller's and Goethe's intimate friendship (1795); detailed investigation into Lessing's *Literaturbriefe*, *Laokoon*, and *Hamburgische Dramaturgie*.
- III. Literature of the Renaissance in Germany; influence of the Italian and French Renaissance upon the same (with special reference to Georg Voigt, Janssen, Burckhardt, L. Geiger).
- IV. History of the Middle Ages from the time of the evolution of European States to the rise of the Hohenstaufen Emperors (selections from the historical sources will be read and interpreted).
- V. The Political Awakening in the Eighteenth Century; Causes of the French Revolution and the Napoleonic Empire.
- VI. The Annihilation and Reconstruction of Prussia (H. von Treitschke); the Building up of the Modern German Empire (H. von Sybel).

The archives of the National Capital will be utilized for purposes of research.

Philosophy.

PROFESSOR STERRETT.

- I. Aristotle's Ethics and Politics.
- II. The Ethical Theories of Hobbes, Bentham, Mill, and Spencer.
- III. The Ethics of Kant and Hegel's *Rechtsphilosophie*.
- IV. Kant's Critique of the Pure Reason and his Critique of the Judgment.
- V. Hegel's *Logik* and *Philosophie des Geistes*.
- VI. The Philosophy of Religion, Hegel and Pfleiderer.
- VII. The Philosophy of History. Under this students may also specialize, selecting formative epochs of history, *e. g.*—
 - a. The Conversion of the Roman Empire to Christianity.
 - b. The Rise and Formation of the Temporal Power of the Papacy.

Any one of these courses may be taken for the Master's degree. Any two of them will constitute a major subject for the Doctor's degree. Other equivalent courses may be arranged with the Professor.

Notice is also called to the courses on French Philosophy given by Dr. Lodge, as supplemental to the above and to the series of papers given before the Society for Philosophical Inquiry.

PROFESSOR HARRIS.

Dr. Harris will coöperate with Dr. Sterrett in carrying out additional courses.

1. Philosophy of History, and
2. The History of Philosophy.

Political Philosophy.

PROFESSOR LODGE.

I. A comparative study of the political institutions of France, England, and the United States, based upon Guizot, Taine, Freeman, Stubbs, Boutmy, De Tocqueville, Bryce, C. E. Stevens, Burgess, and Maine.

II. A course in international law; its genetic idea; its history; its present status, and the specific contributions made by the Government of the United States to the improvement of the law of nations. The work is based upon Wheaton, Calvo, and Maine, as well as on the material furnished by the archives of the Department of State.

III. A course in political economy, dealing with the problems of socialism, coöperation, and distribution, based upon the chief French, English, Italian, and German authorities.

Students in all these courses must be able to read French fluently.

Mathematics.

PROFESSOR GORE.

For the degree of Master of Arts:

1. Higher Plane Curves; Modern Higher Algebra.
2. Mathematical reading: Carr's Synopsis of Pure Mathematics; Láska's Mathematische Formeln-Sammlung; Gore's Factors and Formulas.
3. Advanced Integral Calculus; Theory of Equations.

For the degree of Doctor of Philosophy:

1. Functions: General Theory of Functions, Harkness and Morley; Abelian Functions, Briot, Théorie des Fonctions Abéliennes.

PROFESSOR HODGKINS.

Differential Equations.

Students in this course meet with the class in Differential Equations in the Scientific School (two hours a week), studying there Johnson's Differential Equations. This will be supplemented by lectures and by the study of Forsyth's Differential Equations (two hours a week).

Determinants.

The first part of the year will be given to the mastery of some elementary book on Determinants, such as that by Weld. This will be followed by a study of Scott's Theory of Determinants and of Muir's Theory of Determinants in the Historical Order of its Development.

Applied Mathematics.

PROFESSOR FAVA.

I. GEOMETRY OF POSITION, developed by projective methods, based on the works of von Staudt, Moebius, Steiner, Poncelet, etc.

II. GRAPHIC STATICS.—This science can be studied with either of two objects in view:

a. As a part of applied mechanics.

b. As a part of Analytical Mechanics, based on geometry of position.

III. Investigations in analytical and applied mechanics, hydrodynamics, hydraulics, pneumatics, and strength of materials, based on the works of Weisbach, Church, Ritter, Rankine, Bresse, etc.

Solar Physics.

PROFESSOR BIGELOW.

Graduate studies, for the degree of Doctor of Philosophy, in Solar Physics in its relation to Meteorology.

I. SOLAR MAGNETISM.—The constitution of the sun, the solar corona, the sun-spots, and allied problems in solar physics, giving the grounds for the recent developments of the theory that the sun is a polarized sphere surrounded by a magnetic field, which is the basis of these phenomena.

II. COSMICAL ELECTRICITY AND MAGNETISM.—The two fields of force emanating from the sun, their mode of propagation through the æther, the

theory of magnetic and electro-magnetic fields as applied to the theories of light, heat, and æther wave-motions. Authors: Maxwell, Poincaré, Fleming, Watson, and Burbury, with references to the recent literature in scientific journals.

III. TERRESTRIAL MAGNETISM.—The distribution of the permanent magnetism of the earth, its disturbance by the solar fields, magnetic instruments, observatories and methods of observation, magnetic storms, the aurora, and atmospheric electricity, with a history of the progress of the science of each portion. Authors: Gauss, Lloyd, Walker, Stewart, and Gee, the reports of observatories and recent scientific papers.

IV. METEOROLOGY.—The thermodynamic theory of the distribution of the atmosphere, the motions of the same, the periodic variations due to the solar fields, and the long-range predictions of the weather. A statement of the latest progress in the development of this branch of physics, together with the allied questions of atmospheric absorption and transmission of energy, including important contributions of physical laboratories bearing on these subjects, will be indicated to the student.

Theoretical Astronomy.

PROFESSOR FRISBY.

PROFESSOR WINLOCK.

A general knowledge of Descriptive Geometry and of Analytic Mechanics being presupposed, the University offers in this School for the degree of Doctor of Philosophy a reading course in the determination of orbits (with special practice in computing), under the following heads:

I. The Theory of Computing the Parabolic Orbit of a Comet from Three Observations, with an ephemeris. Encke's Memoir on Olbers's Method, *Abhandlungen, Erster Band*. Books of reference: Watson's Astronomy, Oppolzer's *Bahnbestimmung der Cometen und Planeten*.

II. The Theory of Computing an Elliptical Orbit, or any Conic Section, from Three or Four Observations. Gauss's *Theoria Motûs*. Books of reference, as above.

III. An Outline of the Method of Least Squares. Encke, Chauvenet, Brünnow, Watson, Johnson.

IV. The Theory of Special Perturbations, with Method of Integrating by Mechanical Quadratures. Encke: *Abhandlungen, Zweiter Band* und

Dritter Band. Books of reference, as above. The method of the variation of the six elements will be first taught. The other methods of Hansen and of rectangular coördinates will follow if needed.

V. The Theory of General Perturbations. Tisserand, *Mécanique Céleste*. An abstract should here be made for the initiation of the student into this subject. Books of reference: Laplace, *Mécanique Céleste*; Lagrange, *Mécanique Analytique*, and *Memoirs*; Leverrier, *Annals of the Paris Observatory*; Hansen, *Auseinandersetzung*; Pontécoulant, *Système du Monde*, etc.

VI. General Spherical Astronomy. Chauvenet's or Brünnow's *Spherical Astronomy*.

Astro-Physics.

The University is authorized to announce that one or two students, if possessing special qualifications and prepared by their training to engage in astro-physical research, may be received into the Astro-Physical Observatory connected with the Smithsonian Institution. They will be chiefly employed upon investigations in radiant energy.

Chemistry.

• PROFESSOR MUNROE.

Courses of graduate study in Chemistry leading to the degree of Master of Arts or of Doctor of Philosophy will be offered to students according to their previous training and special aptitudes. Among the courses projected are certain researches upon explosive substances; analytical methods; the phenomena of deliquescence and efflorescence.

PROFESSOR CLARKE.

Professor CLARKE offers to properly equipped students a course of research work in the development of his theory of the constitution of the natural silicates, and also courses in the redetermination of atomic weights.

PROFESSOR WILEY.

Professor WILEY will direct special researches in Agricultural Chemistry provided that students properly trained in the elements of that science shall present themselves for advanced work.

PROFESSOR DE SCHWEINITZ.

Professor DE SCHWEINITZ offers a course in Bio-Chemistry. This course embraces, in addition to what is ordinarily called physiological chemistry—

I. A study of the products, ptomaines and albumoses, of the growth of germs, either in the animal body or upon artificial media.

II. The influence of these substances in causing disease and their relation to, as well as their effect in, insuring immunity.

Zoölogy.

PROFESSOR GILL.

A general course of lectures is given on the Principles of Zoölogy, including a consideration of the philosophy, the methods of investigation, and the systems of zoölogy as determined by comparative anatomy.

The lectures are supplemented by work in the laboratory, embracing histology, microtomy, and dissection.

Anthropology.

DR. MASON.

Candidates for the degree of Doctor of Philosophy in this School are expected to know as much of mineralogy, geology, geography, botany, zoölogy, chemistry, and history as is taught in colleges. Some familiarity with the classical languages is very desirable, and French and German are absolutely essential. Students should have a knowledge of anatomy and physiology. (See these courses in the curriculum of the Medical School.) They should also have pursued a course in psychology, with especial reference to the study of physiology. (See Corcoran Scientific School, Department of Mental and Moral Philosophy.)

The special studies of the School comprise—

I. Study of the races of man.

II. The history of culture (*Culturgeschichte*) as embodied in the languages, industries, art, social life, philosophy, and mythology of the various peoples of the earth.

III. The history of the past as revealed in the sciences of archaeology and folk-lore.

The works of Topinard, Ladd, Brinton, Peschel, Müller, Hæckel, Hovelacque, Keane, Tylor, Spencer, Morgan, Evans, Gomme, Ratzel, and Lang are used as text, with readings in the journals of the Anthropological societies.

Comparative Osteology and Artistic Anatomy.

PROFESSOR SHUTE.

The special studies in this branch comprise—

I. A brief exposition of the principles of the Evolution of Organic Forms generally; the Vertebrate Form and its Variations, with especial attention to Homologies; the Human Form and its Variations (as affected by occupation, age, sex, disease).

II. Such thoroughness in the descriptions of the several Bones, Joints, and Muscles, and such study of the Superficies of the Living Model as will enable the artist to understand the Statics and Kinetics of the Human Body; Methods of Studying the Proportions of the Human Body, etc.

Meteorology.

PROFESSOR ABBE.

PROFESSOR MARVIN, Associate.

Advanced study in Meteorology will be prosecuted under the three following subdivisions:

I.—EXPERIMENTAL LABORATORY WORK IN METEOROLOGY.

In this field of work the student will investigate the theories of several meteorological instruments and push his study to some decided advance beyond the present state of our knowledge. New apparatus will be devised and constructed and the nature of its errors investigated theoretically and experimentally. Old series of observations, conducted with imperfect apparatus and under unfavorable conditions, will be reduced and corrected in the light of the newest discussions. The laws of such physical phenomena as have to be considered by meteorologists will be investigated by laboratory methods; among these, for example, are radiation, conduction and convection of heat, evaporation; the formation of dew, fog, cloud, rain, snow, hail, and lightning; the minute oscilla-

tions of wind and pressure; the pressure and movements of the wind; the absorption of radiations from the sun or earth by the atmosphere; the viscosity of the air, convective resistances, etc.

II.—PRACTICAL METEOROLOGY.

1. Daily weather charts of all nations.
2. International charts of the northern hemisphere.
3. Methods of projection in cartography.
4. Influence of land and ocean on weather and climate.
5. Empirical rules as to the variability and constancy of weather and climate in general, and computations of the index of variability of climate by the law of errors.
6. Weather types and typical weather charts, both for the United States and for the whole globe.
7. Predictions of daily weather by various methods, such as chance, persistency of current conditions and weather types.
8. Special rules for predicting frost, cold waves, rain, snow, wind.
9. Predictions for one, two, and three days.
10. Long-range predictions for seasons and climates.
11. Precise definition of climate by Hinrich's method, and long-range prediction of Hinrich's climatic exponent.
12. Climates in past geological ages.
13. Codification of empiric and rational rules for prediction.
14. Verification of predictions and the laws of chance involved therein.

III.—PHYSICAL AND THEORETICAL METEOROLOGY.

1. Insolation.
2. The absorption, conduction, and radiation of heat by the air, the earth, and the ocean, and the resulting distribution of temperature.
3. The thermo-dynamics of the atmosphere.
4. Convective equilibrium.
5. The general circulation of a dry atmosphere on a rotating globe.
6. The influence of oceans and continents, and the motions of the actual atmosphere.
7. Local cyclones and anti-cyclones.
8. Atmospheric waves and tides.
9. The distribution of fog, cloud, rain, and snow.
10. Optical and electrical phenomena.

Botany.

PROFESSOR SCRIBNER.

1. Advanced systematic study of the various groups and families of plants.
2. Plant histology and special morphology.
3. Plant distribution and economic plants.

Geology.

PROFESSOR MERRILL.

This School offers facilities for advanced study in Physical Geology, both systematic and applied. Besides a reading knowledge of both French and German, a sufficient knowledge of crystallography and the physics of light is required to enable the student to comprehend and utilize the methods employed in microscopic petrography. The course presupposes a knowledge of determinative mineralogy by both blowpipe and qualitative chemical methods. In case the student selects geology as his principal study, it is advised that a course in quantitative chemical analysis be chosen as one of his minor subjects. It is also desirable that the student devote a certain amount of time to the study of topographic engineering, making himself at least acquainted with the methods of surveying, topographic sketching, and plane-table work, if not proficient therein.

During the first year the student may devote his time largely, if necessary, to perfecting himself in methods, to general work in the laboratory and in the field, to the examination of geological materials, and to familiarizing himself with the literature of the subject. The utility of the various text-books will be recognized, but a very large proportion of the desired knowledge on any subject must be gained from special memoirs and from the current literature as it appears in numerous periodicals. The various sources of information, the most essential lines of work, as well as the most promising fields of investigation, will from time to time be indicated by the instructor.

During the second year it is expected that the student will devote himself to some special investigation which shall serve as the subject of his thesis. Upon the thoroughness with which this subject is handled, the accuracy of observation, and the originality manifested must depend in largest measure his qualification for the desired degree. The course will be

modified to suit individual cases in order that the student may be restricted as little as possible in the exercise of personal taste, originality, and capacity for work. Particularly favorable facilities are offered in this course for work in petrography and in various branches of economic geology, owing to the extensive systematic series which will be found available for study in the exhibition halls of the National Museum. Students in architecture and engineering will also find it to their advantage to devote a portion of their time to the subjects presented in this course, giving particular attention to strength, durability, and the general weathering qualities of natural structural materials, as well as to the relative hardness and toughness of rock-masses, their structure and methods of formation.

Civil Engineering.

PROFESSOR FAVA.

The studies will embrace course 10 in the Department of Applied Mathematics, courses 17, 18, 13, 14, and 9 in the Department of Engineering, and course 9 in the Department of Chemistry of the Corcoran Scientific School.

According to the previous training of the student, some of the courses above may be omitted, and some courses embraced in the regular schedule of studies for the degree of Bachelor of Science in Civil Engineering (Course II) in the Corcoran Scientific School, to which students coming from other institutions might not have devoted the same amount of study as required in the Corcoran Scientific School, may be substituted therefor.

Courses 1 and 2 in the Department of Finance and courses 2 and 3 in the Department of Fine Arts of the same School must be taken unless previously studied. A course in political economy (Corcoran Scientific School, Department of Economics) is recommended. According to personal option, either Mechanical Engineering courses 6 and 7 of the Corcoran Scientific School, in a mechanical direction, or Engineering courses 15, 16, and 17 of the same school, in the line of Building Construction, are recommended; or special studies in some line of Engineering, such as Municipal Engineering, Railroad Maintenance, etc., etc., may be pursued. Practice in photography is advised. Owing to the large field for the employment of engineers in Spanish-American countries, the Spanish language is also recommended for study.

Besides these studies, a complex practical problem of a certain magnitude is given to the applicants for the degree of Civil Engineer as thesis

work. The candidate is placed in the same position as the practising engineer; he has to collect his own data, make his surveys, and is allowed to draw his information from all available sources; but he is expected to furnish a comprehensive report and exhibits, drawings, estimates, etc., which will be complete and throughout satisfactory both as to contents and form.

The subject selected is generally one of the great engineering problems of the day, either in the District of Columbia or elsewhere. After completion of his work each candidate is called upon to discuss and satisfactorily defend his thesis before a Board of Engineer Experts not connected with the University.

A special Board of Engineers awards the Fava prize for valuable theses.

Mechanical Engineering.

PROFESSOR ZOPKE.

PROFESSOR FARWELL, Associate.

The following topics are offered:

1. Summary of Mechanical Engineering. Two hours.
2. Thermodynamics and Application to Theory of Hot-air, Gas, Gasoline, and Steam Engines. Three hours.
3. Construction of Single and Compound Steam-engines. Four hours.
4. Designing of Steam-engines as Constructive Exercises to 3. Four hours.
5. Boiler Construction. Two hours, one term.
6. Designing of Boilers. Two hours, one term.
7. Testing and Management of Engines and Boilers. Two hours, one term.
8. Critical Inspection of Power-plants, followed by a class discussion of the same.
9. Hydraulic Machinery. Two hours, one term.
10. Designing of Hydraulic Machinery. Two hours, one term.
11. Kinematics. Three hours.
12. Construction of Plants. Two hours, one term.
13. Designing of Plants. Four hours, one term.
14. Multiple-expansion Steam-engines and Steam-engines for Special Purposes. Four hours, one term.
15. Designing of Steam-Engines as Constructive Exercises to 14. Four hours, one term.
16. Machine Tools. Three hours.
17. Designing of Machine Tools. Two hours, one term.

Electrical Engineering.

PROFESSOR WOLFF.

Students having obtained the degree of Bachelor of Science in Electrical Engineering (Course III) or its equivalent may receive the degree of Electrical Engineer upon satisfactorily completing a course of one year in the Graduate School, embracing the following studies :

1. Advanced laboratory work.
2. Designing of Dynamo-electric Machinery.
3. Transmission of Electrical Energy.
4. A course of reading of engineering and electrical journals and weekly meetings for the discussion of engineering and electrical subjects.
5. Thesis work, embracing the complete project of an electrical plant for some municipal or industrial purpose, with drawings, designs, and calculations of the plant, machinery, electric devices, with a full description, report, and estimate of cost.

Concomitant studies in Mechanical Engineering and Advanced Physics are required. Students are recommended to take besides Higher Mathematics, German, French, and Chemistry.

Advanced courses in various branches of physics, such as Electricity, Thermodynamics, theory of Light and Sound, and the like, are offered to candidates for the degrees of Master of Science and Doctor of Philosophy.

Architecture.

PROFESSOR HORNBLOWER.

PROFESSOR AMATEIS.

Classical styles; Interior architecture and decoration; Construction of buildings.

Thesis must embody the results of the complete study of a structure of elaborate and ornamental character.

Bibliography and Bibliology.**PROFESSOR BOLTON.**

Professor BOLTON will exercise a general supervision over the bibliographic work done in this School and will advise students as to the best methods of work and the accepted methods of presentation of results.

Unusual opportunities are afforded students in this subject in the meetings of the Washington Library Association, which are held at stated intervals at the Columbian University.

Doctorate Disputation.

The defense of the theses required of candidates for the degree of Doctor of Philosophy was held publicly in the Hall of the University June 5, 1895. The candidate who successfully defended his thesis, the title of his thesis, and the members of the board attacking the same were as follows:

Candidate: GEORGE WESLEY HAMNER, A. B., A. M., LL. B., LL. M.

Thesis: Researches upon the Government of the Creek Indians.

Experts: H. C. YARROW, M. D.

ALBERT S. GATSCHET, PH. D.

ROBERT F. THOMPSON, A. M.

Engineering Disputation.

The defense of the theses of the candidates for the degree of Civil Engineer was held publicly in the Hall of the University June 7, 1895. The candidate who successfully defended his thesis, the title of his thesis, and the members of the board attacking the same were as follows:

Candidate: PERLY EGBERT STEVENS.

Thesis: Design for a Union Depot for the Railroads entering Washington.

Experts: JOSEPH C. HORNBLOWER.

CHANNING M. BOLTON, C. E.

JOHN M. CARRIÈRE.

STUDENTS IN ATTENDANCE.

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
Frank Dexter Fletcher.....	French Philology.....	New York.....	1700 14th St., N. W.
N. S. D. Harrison.....	French Philology.....	Virginia.....	Pension Office.
Zenobia Porter.....	Continental History.....	New York.....	813 15th St., N. W.
Sara West.....	Continental History.....	Germany.....	203 G St., N. W.

ADMITTED AS CANDIDATES FOR DEGREES.

For the Degree of Electrical Engineer.

NAME.	RESIDENCE.	ADDRESS.
Frank Lloyd Averill.....	New York.....	1479 Columbia Road.
C. E., Columbian University, 1891.		
David Henry Sleem.....	New York.....	Washington Loan and
A. B., 1879; M. D., 1887, Bryant College.		Trust Co. Building.
M. D., New York University, 1889.		

For the Degree of Master of Science.

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
Edna Anne Clark	Comparative Politics . . .	New Hampshire . . .	1424 11th St., N. W.
B. S., Columbian University, 1893.			
Allan Davis	Political Philosophy . . .	Ohio	908 11th St., S. E.
B. S., Columbian University, 1890.			
Bolivar Lang Falconer	Comparative Neurology.	Texas	1113 6th St., N. W.
M. D., Georgetown University, 1895.			
Agnes Mary Graham	Political Economy	Pennsylvania	1714 Q St., N. W.
B. S., Columbian University, 1895.			
William Theodore Gray	Meteorology	North Carolina . . .	2147 K St., N. W.
U. S. Naval Academy, 1886.			
Anna Sarah Hazelton	Mathematics	Dist. of Columbia . .	1215 9th St., N. W.
B. S., Columbian University, 1892.			
Charles Le Roy Parker	Chemistry	New York	137 Carroll Place.
B. S., Columbian University, 1895.			
Jesse Pawling, Jr.	Mathematics	Pennsylvania	U. S. Coast and Geo- detic Survey.
A. B., 1888; A. M., 1893, Philadel- phia High School.			
B. S., Cornell University, 1893.			
Adelaide Smith	Mathematics	Iowa	Forest Glen, Md.
S. B., Wellesley College, 1893.			

For the Degree of Master of Arts.

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
Ewing Cockrell	Political Philosophy....	Missouri	1518 R St., N. W.
A. B., Harvard University, 1895.			
B. L., University of Virginia, 1895.			
Ernestine Fireman	Continental History....	Dist. of Columbia..	929 N. H. Ave., N. W.
Graduate Student University of Zurich, 1891-1892.			
Samuel Carroll Ford	Political Philosophy....	Dist. of Columbia..	314 2d St., S. E.
A. B., Columbian University, 1894.			
George Neely Henning	French	Dist. of Columbia..	1728 20th St., N. W.
A. B., Harvard University, 1894.			
Addie Estelle Maguire	French History	Dist. of Columbia..	1116 Va. Ave., S. W.
B. S., Columbian University, 1895.			
Evander McIver Sweet, Jr.	English	Texas	811 K St., N. W.
A. B., Southwestern University, 1895.			
Frederick Cogswell Waite	Statistics	Minnesota	311 East Capitol St.
A. B., University of Minnesota, 1890.			

For the Degree of Doctor of Philosophy.

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
Victor King Chestnut B. S., University of California, 1890.	Major, Plant Chemistry; Minors, Organic Chemistry, Botany.	California.....	1104 P St., N. W.
Oliver Lanard Fassig B. S., Ohio State University, 1882.	Major, Meteorology; Minors, Solar Physics, Laboratory Physics.	Ohio	U. S. Weather Bureau.
Max Georgii LL. B., LL. M., National University, Staats Examen Polytechnic School, Stuttgart.	Major, Modern History; Minors, History of Law, German Literature.	Minnesota	606 F St., N. W.
Revere Randolph Gurley.....	Major, Zoology; Minors, Botany, Geology.	Virginia	71 N. Y. Ave., N. E.
M. D., Columbian University, 1884.	Major, Zoology; Minors, Botany and Geology.	Dist. of Columbia..	478 O St., N. W.
William Perry Hay.....			
B. S., 1891; M. S., 1892, Butler University.		Minnesota	230 12th St., S. W.
Albert Mayer Hilliker.....	Major, Philosophy; Minors, History and Ethics.		
B. D., Seabury Divinity School, 1890.	Major, Palaeobotany; Minors, Botany, Mineralogy.	New York	U. S. Geological Survey.
Charles Arthur Hollick Ph. B., Columbia College, 1879.	Major, Greek; Minors, Latin, French.	Texas.....	Maltby House.
Edward Clark Hudson.....			
A. B., 1884; A. M., 1894, Hiawasse College.	Major, Philosophy; Minors, Economics, History.	Texas	1460 Corcoran St., N. W.
John Scott Johnson			
B. S., 1893; A. M., 1894, Colum- bian University.			

James Stephen Lemon..... B. A., 1864; M. S., 1867, Wesleyan University, Middletown, Conn.	Major, Psycho-physics; Minors, Philosophy, Climatology.	Massachusetts.....	1910 Vt. Ave., N. W.
Thomas James Murray..... B. A., 1889; M. A., 1890, St. Mary's College, Baltimore.	Major, Continental History; Minors, Philosophy VIII, History III.	Dist. of Columbia..	423 N. Y. Ave., N. W.
LL. B., Georgetown University, 1893.			
Edwin Barnes Niver..... A. B., Brown University, 1893.	Major, Philosophy; Minors, Ethics II and III.	Maryland	1332 R St., N. W.
B. D., Episcopal Theological School, Cambridge, 1892.			
A. M., Columbian University, 1895.			
Henry Rogers Pyne..... A. B., 1893; A. M., 1894, Colum- bian University.	Major, Greek; Minors, Latin, French.	Maine	1702 S St., N. W.
John Merriam Reynolds..... B. E., 1867; M. E., 1869, Pennsylv- ania State Normal School.	Major, Philosophy; Minors, Continental History, Political Philosophy.	Pennsylvania	1309 Conn. Ave., N. W.
A. M., Columbian University, 1895.			
C. M. Lacey Sites..... A. B., 1887; A. M., 1890, Ohio Wesleyan University.	Major, Political Philosophy; Minors, Philosophy VIII, French Philosophy V.	Ohio	1315 Clifton St.
LL. B., National University, 1890.			
Timothy William Stanton..... B. S., 1883; M. S., 1895, Univer- sity of Colorado.	Major, Paleontology; Minors, Zoology, Mineralogy.	Colorado	205 13th St., N. W.
Alexander Summers..... B. A., 1876; M. A., 1893, Univer- sity of Tennessee.	Major, Political Philosophy; Minors, Philosophy VIII, Comparative Politics.	Tennessee.....	Bureau of Education.
Cabell Whitehead..... B. M., Lehigh University, 1885. M. S., Columbian University, 1895.	Major, Chemistry; Minors, Mineralogy, Metallurgy.	Idaho	1114 N. H. Ave., N. W.

Candidates for degrees, 36; special students, 4; total, 40.

THE LAW SCHOOL.

The Faculty.

THE REV. BENAIAH L. WHITMAN, D. D.,
PRESIDENT.

THE HON. WALTER S. COX, LL. D., DEAN,
(Associate Justice of the Supreme Court of the District of Columbia,) Professor of the Law of Real Property, of Contracts, of Crimes and Misdemeanors, and of Commercial Paper.

THE HON. JOHN M. HARLAN, LL. D.,
(Associate Justice of the Supreme Court of the United States,) Professor of the Constitutional Jurisprudence of the United States, of the Law of Domestic Relations, of Torts, and of Personal Property.

THE HON. WILLIAM A. MAURY, LL. D.,
(Sometime Assistant Attorney General of the United States,) Professor of Equity Jurisprudence, of Common Law and Equity Pleading, of the Law of Evidence, and of the Jurisdiction and Practice of the Federal Courts.

THE HON. DAVID J. BREWER, LL. D.,
(Associate Justice of the Supreme Court of the United States,) Professor of the Law of Corporations.

GEORGE H. EMMOTT, LL. M.,
Lecturer on the Civil Law.

HENRY E. DAVIS, LL. M.,
(Sometime Assistant Attorney of the District of Columbia,) Lecturer on the History of Law.

WILLIAM F. MATTINGLY, Esq.,
(of the Washington Bar,) Lecturer on Practical Commercial Law.

THE HON. ANDREW C. BRADLEY,
(Associate Justice of the Supreme Court of the District of Columbia,)
Lecturer on Criminal Law and on Criminal Pleading and Practice.

THE HON. BENJAMIN BUTTERWORTH,
(Sometime United States Commissioner of Patents,)
Professor of the Law of Patents.

WILLIAM G. JOHNSON, LL. M.,
(of the Washington Bar.)
Professor of Legal Catechetics, Common-law Practice, and Judge of the
Moot Court.

LEE DAVIS LODGE, PH. D.,
Professor of Public and Private International Law.

MELVILLE CHURCH, LL. M.,
Professor of the Law of Patents.

Court of Appeals.

WILLIAM F. MATTINGLY, *Chief Justice.*
HENRY E. DAVIS, } *Associate Justices.*
CHARLES W. NEEDHAM, }

ROBERT H. MARTIN, Esq.,
Secretary and Treasurer.

The Columbian University has decided to extend the period of study required for the degree of Bachelor of Laws to three years and the time for the degree of Master of Laws to four years. The time when this change will go into effect will be announced in the next Catalogue.

The sessions of the Law School of the Columbian University are held in the University Building, situated on the southeast corner of Fifteenth and H streets, only a few steps from the Executive Mansion and the Executive Departments of the Government.

Admission.

The course of study is adapted to graduates of colleges and to any who have attained a competent discipline of their mental powers. No one is admitted as a candidate for graduation in the Senior Class who has not

spent one year either at this or some other law school, or performed a corresponding amount of study under the direction of a member of the bar. Candidates for admission to the Senior Class will be required to sustain a satisfactory examination upon the studies of the Junior Year.

Matriculation.

No fee is charged for matriculation, but the fee for at least one month's tuition must be paid in advance on registration. The register will be open for the enrollment of students on the first day of September. Seats in the Lecture Hall will be assigned to students in the order of their registration, but seats so assigned will be forfeited on the non-payment of monthly dues.

Sessions.

The entire course of study in the undergraduate department embraces two years. The next annual session will begin on Wednesday, September 30, 1896, and end on the Tuesday next before the second Wednesday in June. The exercises of the School begin daily at 6 o'clock p. m., which enables the University to profit by the services of eminent jurists engaged in the public service at Washington, and gives to students the entire day for study, for reading in the law libraries, or for attending the several Courts at the Federal Capital, besides permitting young men engaged in office duties to enjoy the facilities of the School.

Courses of Instruction.

The School has four classes—a Junior and a Senior in the undergraduate department, a graduate Class in Practice, and a Class in Patent Law and Patent Law Practice.

Junior Class.

PROFESSOR COX,

(Associate Justice of the Supreme Court of the District of Columbia.)

Mr. Justice Cox, aiming to secure for the students of the Junior Class as thorough and accurate a knowledge of the law of real and personal property, of contracts, and of crimes and misdemeanors as it is possible for them to attain within the brief period of a scholastic year, places in their hands successively Blackstone's Commentaries, Kent's Commentaries,

Parsons on Contracts, and Byles on Bills, as text-books. He meets the class on Tuesday, Thursday, and Saturday of each week. For each meeting a lesson of moderate length is assigned, and the lesson for the evening forms the subject of his lecture. In his lecture he reviews, illustrates, and simplifies, as far as he can, the teachings of the lesson, shows how far and in what particulars the law contained in it has been repealed or modified, either by English or American statutes or by the American common law, and tries to remove the doubts and uncertainties that are apt to trouble and perplex those entering for the first time upon the study of law; and to insure a careful reading of the lesson and proper attention to his lecture, he, at the close of the latter, questions the class upon the important points of each.

The students in both the Junior and the Senior classes are required to attend this course.

On Domestic Relations, on Personal Property, on Commercial Paper, and on Torts.

PROFESSOR HARLAN,

(Associate Justice of the Supreme Court of the United States.)

Mr. Justice HARLAN gives a course of lectures on each of these subjects, meeting the classes on Monday and Wednesday evenings, and following the general order and arrangement pursued respectively in Browne on Domestic Relations, Smith on Personal Property, and Pollock on Torts, there is no mere study of these as text-books. Mr. Justice HARLAN's aim is rather to take leading cases on the various topics, and by discussion of those cases to explain, illustrate, and make distinct the rules and principles of these different departments of law. He also calls upon the students to prepare and return to him criticisms on some of the cases he discusses, and thus invites the active effort of all to extract from the opinions the precise matters decided and the reasons therefor. In this way he strives to counteract the tendency to become mere case lawyers and turns the attention to the matter of fundamental principles. This course extends through the whole scholastic year, and the attendance of both the Senior and the Junior Classes is required.

The Senior Class.**PROFESSOR MAURY.**

(Sometime Assistant Attorney General of the United States.)

The students of the Senior Class meet the Professor charged with their special instruction on Monday, Wednesday, and Friday of each week, and, while pursuing the special studies of the Senior course, are required to go a second time through the course of the Junior year, that they may be thoroughly grounded in the law of real and personal property and of contracts.

The special studies of the Senior year begin with Common Law Pleading, in which Stephen on Pleading, as edited by Tyler, is used as the text-book of the class. Next follow instructions on the Law of Evidence, with the first volume of Greenleaf on Evidence as a manual. To these succeed instructions in Equity Jurisprudence and Equity Pleadings and Practice, Smith's Manual of Equity and Mitford and Tyler's Pleading and Practice in Equity being the text-books used under these heads. The closing part of the course is occupied with the law of Partnership considered in itself and in its relations to remedies afforded in courts of equity; and, because of their especial character, lectures are given on the remedies: Ejectments, Quo Warranto, Scire Facias, and Mandamus, as also lectures, by way of review, on Pleading and on Evidence, delivered at the close of the whole course.

The method of instruction pursued in this class is as follows: A lesson, comprising a certain number of pages in the text-book, is assigned to the class, and on the subject-matter of this lesson the Professor, at his next meeting, lectures according to the requirements of the case. At the next meeting he examines the class on the text and lecture of the preceding meeting, using for this purpose carefully written questions and calling up indiscriminately the members of the class.

Legal Catechetics.**PROFESSOR WILLIAM G. JOHNSON.**

The lectures of Professor Cox and of Professor MAURY in the undergraduate department are followed by oral "quizzes" (extending through a whole hour on several days of each week) conducted by Professor WILLIAM G. JOHNSON, a graduate of the School, who is familiar with its

methods of instruction. His "quizzes" are additional and supplemental to those of Professors Cox and MAURY.

By this catechetical analysis, which proceeds on the basis of carefully prepared questions designed to exhaust the contents of the text-books and the lectures, the student is called upon to expound with clearness and to reproduce with readiness the principles of law explained in both.

It is hoped that such a *viva voce* review, by emphasizing the explication of difficult points, will not only impress these points on the memory of the student, but will also train him to a useful self-command in their prompt enunciation.

Constitutional Law.

PROFESSOR HARLAN,

(Associate Justice of the Supreme Court of the United States.)

A course of lectures on the Constitution of the United States, extending through the whole of each scholastic year, is delivered by Mr. Justice HARLAN, of the Supreme Court of the United States.

In this course the student is first made acquainted with the principles of Constitutional Law which had been established in England at the time our Government was organized, as well as with the history of the origin and formation of the Constitution of the United States. It is sought to show how far the Constitution, in its underlying principles, was an orderly and progressive evolution of political ideas in the British race, and how far, in its special structure and provisions, it was a new creation, adapted by its framers to the conditions and wants of the American States and people at the date of its formation. Next follows an examination of each separate clause of the Constitution, with a discussion of the leading adjudications which show how each clause of that instrument has been interpreted by the courts, especially by the Supreme Court of the United States.

These lectures are delivered every Saturday and are open to both the graduate and the undergraduate classes of the School.

Law of Corporations.

PROFESSOR BREWER,

(Associate Justice of the Supreme Court of the United States.)

To those who are engaged in the every-day work of the profession no branch of the law is of greater practical importance than the law of corporations. So great a volume of business is done by corporations today, that they furnish a large amount of the litigation; and, because of their importance, special attention is given to this subject. An extensive course of lectures is delivered by Mr. Justice BREWER, in which the fundamental principles, as early established, and the modifications and adaptations of those principles to the work of corporations in the business of today, as settled by the more modern authorities, are fully developed. The study in these lectures is not confined to private corporations, but includes also the subject of municipal corporations, and the differences between the implied powers and liabilities of these two kinds of corporations and the reasons therefor are explained. This course extends through a large part of the year.

International Law.

PROFESSOR LODGE.

After a discussion of International Law in its nature, foundation, and distinctive quality, as exhibited in its genetic ideas and in the laws of its historical growth, the instructor seeks to give a brief exposition of the fundamental principles which constitute the body of this supreme jurisprudence, with their most important applications, alike to the conduct of nations and to the conduct of individuals.

These Lectures are open to both the graduate and the undergraduate classes of the School.

The Civil Law.

PROFESSOR EMMOTT.

Professor GEORGE H. EMMOTT, A. M., LL. M., a graduate of the University of Cambridge, England, delivers every year a course of Lectures on the Civil Law, in which the principles of the Roman jurisprudence are expounded under given heads, as well for their intrinsic historical interest as for the light they shed on English Common Law.

Criminal Law Pleading and Practice.

The Hon. ANDREW C. BRADLEY, Associate Justice of the Supreme Court of the District of Columbia, delivers a series of Lectures on Criminal Law. These lectures will be supplementary to the fourth book of Blackstone, and will show to what extent the principles, in regard to public wrongs, laid down by Blackstone are applicable in this country at the present day, treating particularly of other principles and of offenses which are either not discussed by Blackstone or do not receive from him the attention which their importance in later times requires.

The Lectures upon Criminal Procedure will treat of pleading and practice in criminal cases, and in discussing the procedure at the trial of criminal cases the difference between criminal and civil practice in regard to the rules of evidence will be pointed out.

The course is open to the undergraduate classes of the School.

Practical Commercial Law.

WILLIAM F. MATTINGLY, Esq., a member of the bar of the District of Columbia, will deliver a special course of Lectures upon questions constantly arising in business life, in banking, in the use of commercial paper, and in the purchase and sale of merchandise, as illustrated by a study of actual cases.

The course is open to the undergraduate classes of the School.

The History of Law.

Professor HENRY E. DAVIS, A. M., LL. M., delivers a course of Lectures giving a general view of the Origin of the English Law and its Development in England and in the United States.

The course is open to the undergraduate classes of the School.

GRADUATE COURSE IN PRACTICE.

A graduate course of instruction in Common Law Practice and in Equity Pleading and Practice, designed to show the application of the principles of law to the transactions of business life and to the actual proceedings of courts, is conducted by Professors WILLIAM A. MAURY and WILLIAM G. JOHNSON as a supplement to the undergraduate course of the Law School. This course leads to the degree of Master of Laws.

In the Equity Branch the students are instructed by Professor MAURY in the general principles of equity pleading and in the mode of conducting an equity case. The text-book employed will be Mitford and Tyler's Equity Pleading and Practice.

During a considerable portion of the term Professor MAURY holds a chancery court, in which students are exercised in equity pleading and practice and all the details in the conduct of equity causes.

In addition to the instruction in legal and equitable procedure, Professor MAURY delivers a special course of lectures on the jurisdiction, practice, and peculiar jurisprudence of the Courts of the United States.

In the Common Law Branch the students use, under the direction of Professor JOHNSON, a work on practice prepared by Professor Cox, after which they are exercised in the conduct and trial of cases, and thus taught to apply their theoretical learning in pleading, practice, and evidence. In connection with this course it is intended that they shall also study some such work as Archbold's Law of *Nisi Prius*.

During more than half the term the exercises are those of a *Nisi Prius* Moot Court, presided over by Professor JOHNSON.

In this course, statements of facts are furnished to the students, who are required to bring and defend proceedings in equity and suits at law thereon, two students being assigned as counsel on each side. By this means they are required to determine the form of action or proceeding, to prepare the pleadings, to produce the evidence, and actually to try the cases, and are thus exercised in all the features and details of the preparation and conduct of an action at law or proceeding in equity as in actual practice.

Conditions of Admission to the Graduate Course in Practice.

Candidates for admission to this course are required to furnish evidence that they have been diligent and successful students of law for the term of two years. Diplomas of respectable law schools, certifying that their holders have been graduated after such a term of study, will be received as evidence of qualification for admission. At the end of the course all such students who shall sustain a satisfactory examination in its instructions and exercises will be entitled to a diploma admitting them to the degree of Master of Laws. Students who have pursued a two years' term of study in a lawyer's office will also be admitted to the course on presenting a certificate of the fact from the lawyer under whose direction they may have studied; but all such students, if aspiring to the degree of Master of Laws, will be required, as a condition

precedent of receiving it, to sustain a satisfactory examination for the degree of Bachelor of Laws, as well as for the degree of Master of Laws.

The tuition fee for this course, covering a period of eight months, is *fifty dollars*. It does not carry with it the privilege of attending the Lectures of the undergraduate course, except in the case of students who are graduates of the School.

A charge of ten dollars is made for diplomas.

Court of Appeals.

Supplementary to this is the Court of Appeals, to which these cases may be taken and in which the student is instructed and exercised in the course of procedure by writ of error and appeal and the preparation of records on appeal, and the preparation of briefs and argument of causes in appellate courts, the purpose being to drill the student in all the details of a case in actual practice, from the presentation of the facts by the client to the final disposition thereof in the court of last resort.

A SPECIAL COURSE IN PATENT LAW AND PATENT LAW PRACTICE.

PROFESSOR CHURCH.

In view of the growing importance of the subject, and in response to the urgent request of a number of members of the bar and graduates in law, the Board of Trustees of the University decided to inaugurate at the opening of the Law Department, on the 1st of October, 1895, a new special course that shall serve as a thorough preparation for those who contemplate entering that most interesting department of jurisprudence—the law of patents.

This course in practice will cover a period of eight months, with two lectures or sessions of the Moot Court each week.

The degree of Bachelor of Patent Laws will be conferred upon those who pass a satisfactory examination at the close of the term.

Only graduates in law or members of the bar will be eligible to this degree.

The course will embrace a series of lectures covering the following subjects, among others: The organization of the District and Circuit Courts, the Court of Claims, the Circuit Courts of Appeal, the Court of Appeals of the District of Columbia, and of the Supreme Court; the powers of and distribution of jurisdiction among such courts relative to patent suits;

the nature of the several kinds of suits that may be brought under the patent statutes; the pleadings appropriate to such suits; the production of evidence in patent causes; the various forms of process and modes of serving same, and the various incidental details of procedure arising in the practical course of a patent suit; judgments and decrees and the modes of securing the entry of the same; proceedings on appeal, including explanation of forms and pleadings employed in appellate procedure; Patent Office interferences.

In addition to these lectures on pleadings and practice, a Moot Court will be organized for the trial of patent causes and Patent Office interferences. The court will be provided with a clerk and a marshal, and will be conducted in such a manner as to familiarize those participating with the details of practical procedure so necessary to be known by the practitioner, yet so difficult to be acquired from the books.

Tuition for the course, \$40.

A charge of ten dollars is made for diplomas.

Societies for Legal Debate and Study.

A Debating Society is organized by students of the School for purposes of investigation, discussion, and practice in parliamentary law. This Society holds public exercises under the auspices of the University, at the close of each scholastic year. Special classes ("Quiz clubs") are also formed for purposes of associated study.

Library and Reading-room.

A Law Library, comprising the works of standard text-writers, the British and American Reports, and books of reference, is open for study and consultation daily from 9 o'clock a. m. to 10 o'clock p. m. Attached to the Library is a reading-room supplied with Law Reviews and Law Periodicals, as well as with other leading reviews and periodicals in science and literature.

Special Facilities.

The Law Library of the United States Supreme Court, containing the largest collection of law books in the country, is open to all who wish to examine any authority or to take notes from any book of reference in ancient or modern jurisprudence. This collection, alike by its variety and its number, lends itself to the study of the world's comparative jurispru-

dence. The different methods of judicial procedure can be studied at the National Capital not only in the Common Law Courts and Federal Courts of the District of Columbia, but also in the Court of Claims and in the Supreme Court of the United States. The Patent Laws, the Land Laws, and the Pension Laws of the United States are here administered in the Executive Bureaus of the Government.

Examination and Graduation.

The Junior class will be examined at the end of the year upon Blackstone's Commentaries; Kent's Commentaries, vol. 4; Parsons on Contracts; Byles on Bills; Brown on Domestic Relations; Pollock on Torts, and Cooley's Constitutional Law.

All candidates for graduation are required to pass an examination, at the end of the course, on all the studies of the two years, in the presence of the Faculty and of such committee as the Trustees of the University may appoint. This examination is conducted upon printed questions, which are answered by each student in writing.

The degree of Bachelor of Laws is granted to students who have passed both years of the prescribed course in the School, or who, on presenting credentials of equivalent study for the first year in some law college or office, and passing the second year in the School, shall sustain a satisfactory examination in all the studies of both the Junior and Senior classes.

Prizes.

A prize of \$100, called "The Parker Prize," in honor of its donor, the Hon. MYRON M. PARKER, is awarded to the student who passes in each year the best examination for the degree of Bachelor of Laws.

A prize of \$50, called "The Britton Prize" in honor of its founder, Colonel ALEXANDER T. BRITTON, is awarded to the student who passes in each year the best examination for the degree of Master of Laws.

Three prizes, one of \$40, one of \$30, and one of \$20, are annually given to the respective authors of the best three essays among all those handed in by such members of the Senior Class as shall compete for them and shall pass a successful examination for the degree of Bachelor of Laws.

Two prizes for excellence in debate are awarded by the Debating Society.

Prize Men in 1894-'95.

Parker Prize, EDGAR H. MAY.
Britton Prize, JAMES McILVAINE GRAY.
First Essay Prize, ADOLPHE MONELL SAYRE.
Second Essay Prize, ARTHUR F. COSBY.
Third Essay Prize, ANDREW Y. BRADLEY.
First Debater's Prize, HARRY C. EVANS.
Second Debater's Prize, J. MARTIN SCRANAGE.

Commencement.

The degrees are publicly conferred and the prizes delivered at the annual commencement of the Law Department, when, in connection with other appropriate exercises, an address is delivered to the graduating class by an eminent member of the bar whom the Faculty may have selected for that purpose.

Expenses.

The entire charge for tuition, lectures, and all the facilities of the School is *eighty dollars* a year, payable in advance, half yearly, or in monthly installments, at the option of students. If a student shall for any cause intermit the studies of either his first or his second year at any point before graduation, or if, at the close of his second year, he shall fail, for any cause, to be graduated, the payments he may have made during either or both of these years will not work exemption from the regular dues of any subsequent year in which he may attend the School. A charge of *ten dollars* is made for diplomas.

Students from abroad can secure Board at reasonable prices. A list of eligible boarding places is always posted on the Bulletin-board of the University.

Graduates of the School are admitted to all lectures of the undergraduate course in subsequent years without charge.

Admission to the Bar.

By the rules of the Supreme Court of the District of Columbia, applicants for admission to the Bar are required to have studied law for three years under the direction of a competent attorney, but by those rules the time spent in the Law School of the University is counted as part of the period of study required for admission.

Columbian Law Society.

A society has recently been organized, under the name of the Columbian Law Society, by graduates of the Law School, for the investigation and discussion of practical legal questions and principles, and particularly those relating to the District of Columbia. Regular meetings of the Society are held in the University building on the second Friday of every month except June, July, and August. All graduates of the Law School who have been admitted to the bar of the District of Columbia are invited to become members of this Society. Further information can be obtained from the President of the Society, Mr. GEO. FRANCIS WILLIAMS, 452 D street northwest, or from its Secretary, Mr. LOUIS A. ROSAFY, 505 Second street northeast.

University Lectures.

Students of the Law School are admitted, without further fee, to the University Lectures. When qualified to profit by them, they can secure admission to such lectures, other than law lectures, given in the University Hall by applying to the Dean.

PROJECTED SCHOOL OF COMPARATIVE JURISPRUDENCE.

The Corporation of the University, at the annual meeting of June, 1892, ordained that a "School of Comparative Jurisprudence, according to the plan already approved, be established as an integral part of our University system."

The organization of the new School has been arrested for the want of adequate endowment, but a beginning in that direction will, it is hoped, be made during the next scholastic year.

In this School it will be sought to carry the study of law into the realm of *jurisprudence*, strictly so called, and to provide a systematic course of *University* studies leading to the degree of Doctor of Philosophy in law. The juridical thought of the world will here be taught as a history and at the same time as a philosophy, ranging in its survey from the first rude germs of the clan stage of human government to the highest evolutions of juridical science, as seen in the Civil Law of Rome, the Common Law of England, and the growing body of International Law. The codes of particular nations and of successive stages in human culture will be passed in review only so far as they mark the successive stages of human progress along the line of civil institutions (after the manner of

Freeman in his "Comparative Politics") and along the line of legal institutes (after the manner of Sir Henry Sumner Maine, Scrutton, Maitland, Vinogradoff, and others). It is designed that scientific studies in comparative anthropology shall form the indispensable preliminary to the special inquiries and task-work pursued in such a school of advanced studies in jurisprudence, so that the laws of the clan, of the tribe, of the village community, of the Greek city-state, of the Roman Empire, and of feudal Europe will be expounded in their proper logical sequence, as preparing the way for a philosophical study of the English Common Law, of American State and Federal jurisprudence, of International Law, of Law Reform, and of Codification.

Text-books used in the Law School.

JUNIOR CLASS.

Blackstone's Commentaries (Sharswood's edition), 2 volumes.....	\$7 50
Kent's Commentaries (Holmes and Barnes's edition).....	12 00
Or (Lacy's edition), third and fourth volumes.....	10 00
Parsons on Contracts, 3 volumes.....	16 00
Cox's Questions.....	2 50
Byles on Bills.....	5 50
Cooley's Constitutional Law.....	3 00
Clark's Criminal Law.....	3 50
Browne's Domestic Relations.....	2 25
Pollock on Torts.....	2 50
Webb's Pollock on Torts.....	5 00
Smith's Personal Property.....	4 00

SENIOR CLASS.

Stephen on Pleading (Tyler's edition).....	2 50
Greenleaf on Evidence, volume 1.....	5 50
Smith's Manual of Equity.....	3 00
Mitford and Tyler's Equity Pleading.....	5 00

GRADUATE COURSE.

Cox's Practice.....	3 00
Mitford and Tyler's Equity Pleading.....	5 00

Good second-hand copies of the books used in the Junior Class can be procured from \$20 to \$45, and in the Senior Class from \$8 to \$15.

Schedule of Lectures in the Law School, 1895-'96.

Days.	Hours.	Classes.	Professors.
Monday ...	6 to 7....	Senior Class	W. A. Maury.
Monday ...	7 to 8....	Post-graduate Class	W. A. Maury.
Monday ...	8 to 9....	Post-graduate Class	W. G. Johnson.
Monday ...	7 to 8....	Junior Class	J. M. Harlan.
Monday ...	8 to 9....	Junior and Senior Classes...	D. J. Brewer.
Tuesday ...	6 to 7....	Junior Class	W. S. Cox.
Tuesday ...	7 to 8....	Quiz Junior Class	W. G. Johnson.
Tuesday ...	8 to 9....	Quiz Senior Class	W. G. Johnson.
Wednesday.	6 to 7....	Senior Class	W. A. Maury.
Wednesday.	7 to 8....	Post-graduate Class	W. A. Maury.
Wednesday.	8 to 9....	Post-graduate Class	W. G. Johnson.
Wednesday.	7 to 8....	Senior and Junior Classes...	J. M. Harlan.
Thursday...	6 to 7....	Junior Class	W. S. Cox.
Thursday...	7 to 8....	Quiz Junior Class	W. G. Johnson.
Thursday...	8 to 9....	Quiz Senior Class	W. G. Johnson.
Friday	6 to 7....	Senior Class	W. A. Maury.
Friday	7 to 8....	Post-graduate Class	W. A. Maury.
Saturday ...	6 to 7....	Junior Class	W. S. Cox.
Saturday ...	7 to 8.30.	Junior and Senior Classes...	J. M. Harlan.

Extraordinary Lectures.

Civil Law, Professor G. H. EMMOTT, Fridays at 7 p. m., beginning October 12.

Corporation Law, Professor D. J. BREWER, Mondays at 8 p. m., beginning October 25.

Criminal Law, Professor A. C. BRADLEY, Wednesdays at 8 p. m. after January 1.

Patent Law, Professor BENJAMIN BUTTERWORTH, Thursdays at 8 p. m. during March.

Commercial Law, Professor W. F. MATTINGLY, Wednesdays at 8 p. m. during January.

STUDENTS OF LAW.

Graduate Class in Practice.

Name.	Address.
Robert Felder Able, South Carolina, LL. B., Columbian University, 1895.	911 M St., N. W.
Shosuke Abo, Japan,	1310 N St., N. W.
William J. Acker, District of Columbia, LL. B., Columbian University, 1895.	1414 H St., N. W.
Brainard Avery, Vermont, LL. B., Columbian University, 1895.	The Maltby.
Michael Francis Blenski, Wisconsin, Daniel J. Carr, Connecticut, LL. B., Columbian University, 1895.	Weather Bureau. 1814 K St., N. W.
Ira Randolph Carter, Iowa, LL. B., University of Michigan, 1895.	815 L St., N. W.
John Barber Clark, Jr., District of Columbia, LL. B., Columbian University, 1895.	801 C St., S. W.
Alan Ogilvie Clephane, District of Columbia, LL. B., Columbian University, 1895.	1225 K St., N. W.
Ewing Cockrell, Missouri, A. B., Harvard University, 1895. LL. B., University of Virginia, 1895.	1518 R St., N. W.
John MacLean Coit, South Carolina, B. S., University of South Carolina. LL. B., Columbian University, 1895.	1211 Q St., N. W.
George Bruce Cortelyou, New York, LL. B., Georgetown University, 1895.	1218 North Carolina Ave., N. E.
Jesse Padon Crawford, Kentucky, LL. B., Columbian University, 1895.	Bureau of Education.
J. A. Eakin Criswell, New York, LL. B., Columbian University, 1895.	632 East Capitol St.
Alfred Newton Dalrymple, District of Columbia, LL. B., Columbian University, 1895.	1704 Oregon Ave., N. W.
Allan A. Davis, Tennessee, A. B., S. W. Baptist University, 1894. LL. B., Columbian University, 1894.	1021 11th St., N. W.

Name.	Address.
William R. Davis, New York, LL. B., Columbia University, 1895.	709 G St., N. W.
John E. Dawson, Massachusetts, LL. B., Columbia University, 1895.	1640 6th St., N. W.
Robert Oldner Deyer, Virginia, Harry C. Evans, Iowa, LL. B., Columbia University, 1895.	301 Massachusetts Ave., N. E. Winder Building.
George Corning Fraser, District of Columbia, B. S., Princeton, 1894. LL. B., Columbia University, 1895.	1701 20th St., N. W.
Stephen W. Gambrill, Maryland, LL. B., Columbia University, 1895.	Laurel, Md.
Daniel Edward Garges, District of Columbia, LL. B., Columbia University, 1895.	713 North Carolina Ave., S. E.
H. Prescott Gatley, District of Columbia, LL. B., Columbia University, 1895.	1833 5th St., N. W.
Frank Ferdinand Gentsch, Ohio, LL. B., Columbia University, 1895.	226 I St., N. W.
John C. Goodfellow, District of Columbia, LL. B., Columbia University, 1895.	1711 De Sales St., N. W.
Harvey B. Gram, Ohio, LL. B., Columbia University, 1895.	1329 10th St., N. W.
Alpha M. Hassler, South Dakota, LL. B., Georgetown University, 1895.	United States Senate.
George C. Hazelton, Jr., District of Columbia, LL. B., Columbia University, 1895.	5 B St., N. W.
John H. Hazelton, District of Columbia, A. B., Johns Hopkins, 1893. LL. B., Columbia University, 1895.	5 B St., N. W.
David Merrill Hildreth, New Hampshire, B. S., Dartmouth, 1887. M. S., Dartmouth, 1894. LL. B., National University Law School, 1893.	1104 East Capitol St.

Name.	Address.
Herman R. Howerstein, District of Columbia, LL. B., Columbian University, 1895.	1338 U St., N. W.
A. Roland Johnson, District of Columbia, LL. B., Columbian University, 1895.	1706 9th St., N. W.
E. C. Johnson, District of Columbia, LL. B., Columbian University, 1895.	1011 M St., N. W.
Eugene A. Jones, District of Columbia, LL. B., Columbian University, 1895.	2016 F St., N. W.
Lee Mason Jordan, Maryland, LL. B., Columbian University, 1895.	2016 O St., N. W.
Carter Brewster Keene, Maine, LL. B., Columbian University, 1895.	920 9th St., N. W.
Harry G. Kimball, District of Columbia, LL. B., Columbian University, 1895.	620 North Carolina Ave., S. E.
Harvey C. Long, Mississippi, Marvin M. McLean, Texas, LL. B., University of Texas, 1890.	30 Grant Place.
Christopher K. Macey, New York, LL. B., Columbian University, 1895.	Department of Labor.
Edward B. Markham, District of Columbia, LL. B., Columbian University, 1895.	1119 I St., N. W.
C. Carroll Martin, District of Columbia, LL. B., Columbian University, 1895.	Benning's Road, D. C.
Charles A. L. Massie, Georgia, LL. B., Columbian University, 1895.	1121 12th St., N. W.
Edgar H. May, District of Columbia, LL. B., Columbian University, 1895.	1819 G St., N. W.
Norman R. Metcalf, Iowa, LL. B., National University Law School, 1894.	2119 F St., N. W.
LL. M., National University Law School, 1895.	1333 F St., N. W.
Robert F. Miller, District of Columbia, LL. B., Columbian University, 1893.	1320 10th St., N. W.
George A. H. Mills, New York, LL. B., Columbian University, 1895.	1115 9th St., N. W.
Joel Nelson Morris, District of Columbia, LL. B., Columbian University, 1895.	909 M St., N. W.

Name.	Address.
Emerson R. Newell, Connecticut, A. B., Yale, 1893.	Patent Office.
Edwin Alonza Niess, Pennsylvania, LL. B., Columbian University, 1895.	1008 F St., N. E.
Francis Nye, District of Columbia, LL. B., Columbian University, 1895.	936 O St., N. W.
Henry Orth, Jr., District of Columbia,	1011 L St., N. W.
Edwin Howe Peery, Oregon, LL. B., Missouri State University, 1881.	1430 Corcoran St., N. W.
Jesse Weems Rawlings, District of Co- lumbia, LL. B., Columbian University, 1895.	2016 F St., N. W.
Albert Thorpe Ryan, District of Colum- bia, A. B., Yale University. LL. B., Columbian University, 1895.	1230 13th St., N. W.
Emil Charles Schneider, Illinois, LL. B., Columbian University, 1895.	803 I St., N. W.
John C. Scofield, Georgia, LL. B., Columbian University, 1895.	1447 Corcoran St., N. W.
Charles F. Sensner, Virginia, LL. B., Columbian University, 1895.	1415 Howard Ave., N. W.
Clem L. Shaver, West Virginia, F. Marion Smith, West Virginia, LL. B., Columbian University, 1895.	Weather Bureau. 1514 K St., N. W.
Frederick George Stutz, District of Co- lumbia, LL. B., Columbian University, 1895.	1507 Rhode Island Ave., N. W.
Daniel M. Sullivan, Massachusetts, William Leonard Symons, Ohio, LL. B., Columbian University, 1895.	Treasury Department. 1017 15th St., N. W.
Morven Thompson, District of Columbia, LL. B., Columbian University, 1895.	1756 Corcoran St., N. W.
Harry Stanley Tullis, Montana, LL. B., Columbian University, 1895.	Agricultural Department.
Richard K. Tyler, District of Columbia, B. S., Dartmouth, 1890. LL. B., Columbian University, 1895.	1307 F St., N. W.

Name.	Address.
Guy Underwood, Ohio, LL. B., Columbian University, 1895.	215 1st St., S. E.
Harry Weston Van Dyke, New York, LL. B., Columbian University, 1895.	1301 K St., N. W.
Horace Greeley Van Everen, New York, M. E., Cornell, 1891. LL. B., Columbian University, 1895.	2136 G St., N. W.
William Warren Wertz, Massachusetts. LL. B., Columbian University, 1895.	1106 8th St., N. W.
Horace Hampton Westcott, Pennsylvania, LL. B., Columbian University, 1895.	808 17th St., N. W.
Edgar Whitfield Williams, New York, LL. B., Columbian University, 1895.	633 Q St., N. W.
David Edgar Wilson, District of Columbia, A. B., Western Maryland College, 1893. LL. B., Columbian University, 1895.	1113 East Capitol St.
Louis H. Wulfekuhler, Kansas, LL. B., Kansas State University, 1895.	806 H St., N. W.

Graduate students 75

Seniors.

Name.	Address.
Thomas A. Aiton, District of Columbia,	413 B St., N. E.
Allen Diehl Albert, Jr., Pennsylvania,	33 S St., N. W.
George Wilson Baker, District of Columbia,	1745 Q St., N. W.
Marcus Baker, District of Columbia, A. B., University of Michigan, 1870.	1905 16th St., N. W.
Rufus H. Baker, New Hampshire, A. B., Dartmouth, 1893.	1432 S St., N. W.
Frank M. Barnes, Minnesota,	1225 O St., N. W.
Grove Sidney Beardsley, New York,	1704 Connecticut Ave., N. W.
Don P. Blaine, New York,	163 F St., N. E.
Michael Francis Blenski, Wisconsin,	Weather Bureau.
F. C. Bliss, Pennsylvania,	329 T St., N. W.

Name.	Address.
Eugene J. Bogen, Mississippi,	Treasury Department.
Louis Dillon Brosius, Pennsylvania,	944 K St., N. W.
Lewis C. Brown, New York,	1000 9th St., N. W.
H. Leroy Browning, Illinois,	4 8th St., S. E.
H. G. Buchanan, Virginia,	Cairo Flats.
Sherman E. Burroughs, New Hampshire,	1432 S St., N. W.
A. B., Dartmouth, 1894.	
Charles B. Calvert, Maryland,	1750 Corcoran St., N. W.
George H. Calvert, Jr., Maryland,	College Park, Md.
A. B., Maryland Agricultural College.	
Luther Sidney Cannon, North Carolina,	Pension Office.
A. B., Wake Forest College (N. C.), 1890.	
Charles B. Cheyney, District of Columbia,	3000 I St., N. W.
B. A., Yale, 1894.	
Frank L. Churchill, Wisconsin,	Pension Office.
Harry L. Clapp, Massachusetts,	35 Patent Office.
S. B., Massachusetts Institute of Technology, 1893.	
Francis W. H. Clay, Kentucky,	1013 15th St., N. W.
C. E., Cornell University, 1893.	
William H. Coleman, Pennsylvania,	720 21st St., N. W.
Henry R. Concklin, Rhode Island,	1118 New Hampshire Ave., N. W.
H. Karl Cooke, District of Columbia,	1 Cooke Place.
Alfred S. Dalton, North Carolina,	912 Massachusetts Ave., N. W.
Frank Parker Davis, Massachusetts,	Washington Loan and Trust Building.
Guy E. Davis, District of Columbia,	3006 P St., N. W.
Joseph A. Dempf, District of Columbia,	311 F St., N. E.
Robert Oldner Deyer, Virginia,	301 Massachusetts Ave., N. E.
Theodore T. Dorman, New Jersey,	The Lincoln.
S. B., Massachusetts Institute of Technology, 1893.	
Bertram Martin Doyle, Kentucky,	722 12th St., N. W.
Ph. B., Riverside Seminary, 1892.	
George Thomas Dunlop, Jr., District of Columbia,	3102 Q St., N. W.

Name.	Address.
John Joy Edson, Jr., District of Columbia,	1324 16th St., N. W.
Thomas Freeman Epes, Virginia,	809 12th St., N. W.
George W. Evans, Jr., Kentucky,	201 East Capitol St.
John W. Ewing, Illinois,	106 5th St., N. E.
Joseph R. Fague, District of Columbia,	605 Massachusetts Ave., N. W.
James M. Fisher, Virginia,	1212 9th St., N. W.
Arthur I. Flagg, Virginia,	1012 13th St., N. W.
Justin E. Flannery, Ohio,	Post Office Department.
John M. Fleming, North Carolina,	911 M St., N. W.
Arthur L. Flint, Ohio,	Patent Office.
William Edwards Fort, Georgia,	2107 O St., N. W.
Samuel E. Fouts, Indiana,	700 20th St., N. W.
B. M. E., Purdue University.	
L. William Gammon, New York,	808 12th St., N. W.
John W. Gardner, New York,	1115 O St., N. W.
Arthur Garner, District of Columbia,	301 Massachusetts Ave., N. E.
Henry Livingston Godsey, Kentucky,	824 13th St., N. W.
Bernard R. Goggins, Wisconsin,	222 3d St., N. W.
John G. Gray, Delaware,	1005 New Hampshire Ave., N. W.
Walter H. Gray, Maryland,	220 11th St., S. W.
Thomas Newcome Greer, Tennessee,	Weather Bureau.
Frank R. Hanna, Kansas,	700 20th St., N. W.
Charles B. Harding, Pennsylvania,	55 New York Ave., N. W.
Thomas B. Harrison, Kentucky,	722 12th St., N. W.
William Haywood, District of Columbia,	1619 21st St., N. W.
Edward J. Henning, Wisconsin,	Oxford.
B. L., University of Michigan, 1894.	
Granby Hillyer, Georgia,	1202 S St., N. W.
Charles A. Hines, District of Columbia,	Tennallytown, D. C.
Frank Samuel Holliger, Missouri,	1226 Massachusetts Ave., N. W.
Jason C. Hundley, Virginia,	1215 I St., N. W.
Erskine Hutcheson, Ohio,	69 H St., N. W.
Arthur Johns, District of Columbia,	1707 M St., N. W.
Fred. Johnson, New York,	Treasury Department.
Abraham B. Keefer, Pennsylvania,	1334 Emerson St., N. E.
John H. Kennedy, Tennessee,	1212 9th St., N. W.
Colton H. Lee, District of Columbia,	1325 Vermont Ave., N. W.
Joel Thomas Livingston, Missouri,	207 9th St., N. W.

Name.	Address.
Robert Francis Livingston, New York, B. S., Cornell, 1894.	939 Rhode Island Ave., N. W.
John W. Loder, Oregon, B. S., McMinelle University, 1894.	941 H St., N. W.
Lucas Powell Loving, Virginia,	723 18th St., N. E.
Alexander D. Lunt, New York, M. E., M. M. E., Cornell, B. S., Worcester Polytechnic Insti- tute.	Hotel Lincoln.
Ormsby McCammon, District of Colum- bia.	1324 19th St., N. W.
John J. McGrain, Indiana,	527 Florida Ave., N. W.
James Madison, Virginia,	1023 Vermont Ave., N. W.
Charles Bott Mann, Mississippi,	Sixth Auditor's Office.
Henry M. Marshall, Virginia,	2009 I St., N. W.
John A. Massie, District of Columbia,	700 10th St., N. W.
Leonard J. Mather, District of Columbia,	303 D St., N. W.
Guy Stanley Meloy, Maryland,	118 C St., N. W.
Claude Elliott Miller, District of Colum- bia.	Civil Service Commission.
Edward P. Mills, Virginia,	1012 New Hampshire Ave., N. W.
W. Roy Mitchell, Kansas,	920 N St., N. W.
Frank Horace Moore, Kansas, A. B., Kansas University, 1894.	207 9th St., S. W.
Noble Moore, Tennessee,	1115 Rhode Island Ave., N. W.
Henry Orth, Jr., District of Columbia.	1011 L St., N. W.
Wilber A. Owen, Michigan,	927 I St., N. W.
Charles W. Parker, Virginia,	614 F St., N. W.
Thornton Jenkins Parker, Rhode Island,	1731 H St., N. W.
Orin Patterson, Missouri,	207 9th St., S. W.
Bennett Peck, District of Columbia,	3263 O St., N. W.
Aurestus S. Perham, Maine,	905 Westminster St., N. W.
Francis Mohun Phelps, Connecticut,	1206 S St., N. W.
James Franklin Philp, New York,	436 H St., N. W.
Aurelian Howard Pinney, Iowa,	417 Massachusetts Ave., N. W.
William B. Pugh, Kentucky,	722 12th St., N. W.
J. Castle Ridgway, Illinois,	1632 17th St., N. W.
Frederick D. Riggles, Virginia,	2121 G St., N. W.
Thomas M. Robertson, North Carolina,	127 6th St., N. E.

Name.	Address.
Raymond Robins, Florida,	1011 M St., N. W.
Henry J. Robinson, New York,	Pacific Building.
P. A. Roche, New York,	1310 20th St., N. W.
S. West Russell, Maryland,	509 11th St., S. W.
J. Martin Scranage, West Virginia,	Geological Survey.
Arthur B. Seibold, District of Columbia,	110 Maryland Ave., N. E.
Clem L. Shaver, West Virginia,	Weather Bureau.
Alonzo W. Shunk, Pennsylvania,	716 8th St., N. W.
Laban Sparks, Maryland,	207 9th St., S. W.
Henry E. Stauffer, Delaware,	3238 N St., N. W.
Charles H. Stevenson, Maryland,	Fish Commission.
W. P. Stone, Arkansas,	Washington Barracks.
E. Hume Talbert, District of Columbia,	220 6th St., S. E.
A. B., Curry University, 1895.	
James A. Tanner, District of Columbia,	Washington Loan and Trust Building.
Blain W. Taylor, West Virginia,	246 9th St., N. E.
William H. Taylor, Ohio,	
Robert W. Test, Illinois,	223 E St., N. W.
Clark K. Tilton, District of Columbia,	1330 Corcoran St., N. W.
A. Pearce Tomkins, Wisconsin,	1108 16th St., N. W.
John Sarsfield Tucker, New York,	808 12th St., N. W.
William Pinckney Walker, Ohio,	936 23d St., N. W.
Charles G. Watson, Connecticut,	1307 N St., N. W.
John L. Weaver, District of Columbia,	412 T St., N. W.
Albert Lansing Wetmore, Virginia,	1216 18th St., N. W.
A. B., Harvard, 1894.	
William James Whitaker, Pennsylvania,	720 21st St., N. W.
George Dudley Whitney, New Jersey,	1708 H St., N. W.
George M. Whitney, Virginia,	1517 Columbia Road, N. W.
C. B. Wike, North Carolina,	1300 Pennsylvania Ave., N. W.
Robert E. Wiley, Arkansas,	1412 6th St., N. W.
James L. Wilmeth, Arkansas,	Sixth Auditor's Office.
Charles F. Wilson, District of Columbia,	2004 G St., N. W.
William G. Worrell, Virginia,	103 11th St., S. E.
Robert H. Young, District of Columbia,	1577 Howard Ave., N. W.
Joshua S. Zimmerman, West Virginia,	915 I St., N. W.
A. B., Randolph-Macon College.	

Seniors.....135

Juniors.

Name.	Address.
Maurice Le Roy Alden, Kansas, B. A., University of Kansas, 1895.	1528 I St., N. W.
William Wallace Anderson, South Carolina,	1211 Q St., N. W.
Percy F. Archer, Maryland,	234 New Jersey Ave., S. E.
Edward O. Asmussen, District of Columbia,	1113 P St., N. W.
Harry Wilson Avis, West Virginia,	2031 H St., N. W.
Raymond E. Baker, Kansas,	210 5th St., N. E.
Howell Bartle, District of Columbia,	1347 T St., N. W.
Louis Deshields Basye, Virginia,	708 13th St., N. W.
William J. Becker, Illinois, M. E., Royal Polytechnique, Munich, Germany.	6 Iowa Circle, N. W.
Arthur F. Belitz, Wisconsin,	207 East Capitol St.
Frank M. Benjamin, District of Columbia,	1852 5th St., N. W.
James Wilson Bevans, Jr., District of Columbia,	1114 I St., S. E.
Howard R. Blanchard, Virginia,	214 11th St., S. W.
John Stidham Bonebrake, District of Columbia,	917 3d St., N. W.
Preston Boisseau, Virginia,	809 12th St., N. W.
Philander A. Bowen, Jr., Maryland,	1228 16th St., N. W.
S. D. Bradley, District of Columbia,	1688 31st St., N. W.
Thomas A. Bradley, Kentucky,	1688 31st St., N. W.
Frank Walter Brandenburg, District of Columbia,	1745 Pennsylvania Ave., N. W.
John Waggaman Brawner, District of Columbia,	Wesley Heights, D. C.
Southwick C. Briggs, New York,	1731 Q St., N. W.
Harry James Brown, New Hampshire, B. S., Dartmouth, 1895.	1432 S St., N. W.
Claude L. Buchanan, Ohio,	Auditor War Department.
Arthur A. Buck, Massachusetts,	700 20th St., N. W.
Norval Hamilton Busey, Jr., Maryland,	1505 12th St., N. W.
Frank G. Butts, New York,	1467 Kenesaw Ave., N. W.
Bernard J. Cain, District of Columbia,	16 I St., N. E.

Name.	Address.
James T. Casey, Louisiana,	1725 G St., N. W.
Oscar D. Clarke, District of Columbia,	232 1st St., S. E.
Henry A. Conner, California,	500 5th St., N. W.
William Beson Corwin, Pennsylvania,	Atlantic Building.
James Lewis Cousar, Arkansas,	1012 12th St., N. W.
Frederick C. Croxton, Illinois,	907 R St., N. W.
Clifford T. Curry, Ohio,	910 I St., N. W.
John Bernard Dahlgren, District of Columbia,	6 Lafayette Square, N. W.
George W. Dalzell, New York,	433 Q St., N. W.
Samuel Dalzell, Pennsylvania,	1605 New Hampshire Ave., N. W.
William F. Daughton, District of Columbia,	1242 20th St., N. W.
Frederick L. Davis, Pennsylvania,	1018 8th St., N. W.
John T. Davis, West Virginia,	1725 9th St., N. W.
Herbert L. Deyo, Missouri,	1011 13th St., N. W.
Henry G. Disch, Wisconsin,	1732 5th St., N. W.
Harry Pelouze Doolittle, District of Columbia,	2022 Hillyer Place, N. W.
Leon L. Dye, Mississippi,	10 Grant Place, N. W.
Thomas C. Easterling, Kentucky,	320 Massachusetts Ave., N. E.
Frank Warner Emmons, District of Columbia,	1533 New Hampshire Ave., N. W.
William L. English, Illinois,	1415 Q St., N. W.
Samuel Carroll Ford, District of Columbia,	314 2d St., S. E.
A. B., Columbian University, 1894.	
Rudolph Forster, Virginia,	213 5th St., S. E.
Jack W. Fort, Georgia,	928 New York Ave., N. W.
Owen H. Fowler, District of Columbia,	915 G St., N. W.
Peter Frank, New York,	803 New Jersey Ave.
Edwin S. Frith, Tennessee,	1445 Corcoran St., N. W.
Augustus Marion Fulk, Arkansas,	1419 Corcoran St., N. W.
Francis Guy Fulk, Arkansas,	1419 Corcoran St., N. W.
C. Vanmeter Gates, West Virginia,	Corner 7th and E Sts., N. W.
Edward S. Glavis, District of Columbia,	1701 Q St., N. W.
Frederick B. Goodheart, Tennessee,	636 L St., N. E.
Frederick Chaille Handy, Virginia,	1331 12th St., N. W.

Name.	Address.
James E. Harper, South Carolina, B. S., Furman University (S. C.).	903 10th St., N. W.
Charles G. Harris, District of Columbia, S. B., Worcester Polytechnic Institute, 1894.	1917 Kalorama Ave., N. W.
William James Hays, Ohio,	805 O St., N. W.
John Thilman Hendrick, Tennessee,	1704 Q St., N. W.
George J. Hesselman, Illinois,	403 G St., N. W.
Anthony Holmead, District of Columbia,	1527 I St., N. W.
John H. Holt, Georgia, B. S., Alabama Polytechnic Institute.	306 C St., N. W.
M. E., Alabama Polytechnic Institute.	
E. E., Alabama Polytechnic Institute.	
James E. Jenks, Minnesota,	1310 12th St., N. W.
Charles A. Johnson, District of Columbia,	2011 S St., N. W.
Emerson Meredith Johnson, Indiana,	Auditor P. O. Department.
L. S. Johnson, Virginia,	1460 Corcoran St., N. W.
Dwight V. Jones, Nevada,	234 New Jersey Ave., N. W.
James E. Jones, Ohio,	941 M St., N. W.
Arthur Augustus Jordan, Massachusetts, A. B., Williams College, 1894.	1706 Q St., N. W.
Frank Keiper, Indiana,	509 6th St., N. W.
A. B., Wabash College, 1891.	
B. M. E., Purdue University, 1893.	
M. E., Purdue University, 1894.	
William Balfour Ker, Washington,	1405 G St., N. W.
Frank C. Kingsland, New York,	1757 Madison Ave., N. W.
James Benton Lackey, District of Columbia,	1612 Q St., N. W.
J. Wilmer Latimer, West Virginia,	518 9th St., N. W.
Wilbur V. Leech, Washington,	1715 14th St., N. W.
William F. Lemon, District of Columbia,	629 G St., S. W.
Henry Leonard, District of Columbia,	626 D St., S. E.
J. R. Audley Linke, New York,	Patent Office.
George R. Linkins, District of Columbia,	1923 G St., N. W.
Monroe Creet List, West Virginia,	1435 K St., N. W.

Name.	Address.
William H. Lopp, Indiana,	512 F St., N. W.
Lanier McKee, District of Columbia,	1752 Rhode Island Ave., N. W.
A. B., Yale, 1895.	
Ned McLaughlin, Ohio,	929 K St., N. W.
Ph. B., Marietta College.	
George D. Mackay, Jr., New Jersey,	916 H St., N. W.
E. Duncan Mallam, Washington,	235 New Jersey Ave., S. E.
George Mallison, North Carolina,	2031 P St., N. W.
Benjamin Martin, Jr., South Carolina,	1806 S St., N. W.
William Mehn, Louisiana,	1838 6th St., N. W.
David P. Moore, District of Columbia,	1639 Marion St., N. W.
Frederick Lafayette Neville, New York,	General Land Office.
William Carey Oldfield, Michigan,	1011 M St., N. W.
B. S., Kalamazoo College.	
John I. Painter, Iowa,	127 E St., N. E.
Charles Oscar Paullin, Ohio,	5th and Albany Sts., N. E.
A. B., Johns Hopkins University,	
1895.	
William K. Payne, New York,	Hotel Normandie.
Elliott K. Pennebaker, Kentucky,	1307 F St., N. W.
Herman Hoffman Philip, District of Co-	1230 Connecticut Ave., N. W.
lumbia,	
Frank K. Pilson, Pennsylvania,	1708 5th St., N. W.
Spencer B. Prentiss, District of Columbia,	1322 Yale St., N. W.
B. S., Columbian University, 1895.	
Ralph H. Riddleberger, Virginia,	648 E Capitol St.
Samuel Roads, Jr., Massachusetts,	1901 Q St., N. W.
Harry J. Robertson, Virginia,	1534 I St., N. W.
William L. Rowland, Maryland,	1824 9th St., N. W.
Herbert C. Sanford, Wisconsin,	1132 5th St., N. W.
B. L., Lawrence University, 1893.	
Charles S. Shreve, Jr., District of Co-	1543 8th St., N. W.
lumbia,	
William Martin Smith, Ohio,	92 M St., N. W.
John J. Snodgrass, Pennsylvania,	520 21st St., N. W.
Gordon Sowers, District of Columbia,	6 Cooke Place, N. W.
Augustus F. Specht, Pennsylvania,	421 New Jersey Ave., S. E.
John M. Spellman, Texas,	1920 Sunderland Place, N. W.
Maurice Spencer, Mississippi,	138 3d St., N. W.
William S. Stamper, Virginia,	1105 K St., N. W.

Name.	Address.
John Walton Steward, New Jersey,	508 C St., S. E.
Barnwell S. Stuart, District of Columbia,	1515 31st St., N. W.
La Verne Latimer Sullivan, Idaho,	1621 13th St., N. W.
Willis Eugene Sullivan, Idaho,	1621 13th St., N. W.
Otho H. W. Talbott, Maryland,	Rockville, Md.
Frederick L. Tarbox, New York,	401 1st St., S. E.
William P. Taylor, Jr., Virginia,	St. James Hotel.
John Lilburn Thomas, Missouri,	1244 Kenesaw Ave., N. W.
A. R. Thornton, Indiana,	206 Indiana Ave., N. W.
George P. Tucker, Nebraska,	633 G St., N. E.
S. B., Worcester Polytechnic Institute, 1887.	
Benjamin Gray Tunstall, District of Columbia,	1706 19th St., N. W.
Alfred Veazie, Maine,	
Harry O. Weaver, Ohio,	Fish Commission.
Richard M. Webster, Kentucky,	812 11th St., N. W.
Ferdinand A. Weiler, District of Columbia,	1316 V St., N. W.
Chester Wells, Pennsylvania,	520 6th St., N. W.
Cyrus Campbell Wells, Illinois,	1227 O St., N. W.
Joseph W. Welsh, Washington,	2112 R St., N. W.
Roy C. Woodside, Missouri,	Weather Bureau.
William F. Woolard, Illinois,	900 New York Ave., N. W.
John W. Wright, Illinois,	1724 Corcoran St., N. W.
Hulbert Young, District of Columbia,	1517 Howard Ave., N. W.
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Students in Patent Law.

Name.	Address.
Acton Civill Bassett, New York,	1300 Pennsylvania Ave.
A. B., Columbian University, 1893.	
LL. B., New York Law School, 1894.	
S. Hazen Bond, District of Columbia,	Smithsonian Institution.
LL. B., Columbian University, 1894.	
LL. M., Columbian University, 1895.	
William Du Vall Brown, District of Columbia,	606 F St., N. W.
LL. B., Columbian University, 1892.	
LL. M., Columbian University, 1893.	

Name.	Address.
Norval Landon Burchell, District of Columbia,	1102 Vermont Ave., N. W.
LL. B., Columbian University, 1891.	
LL. M., Columbian University, 1892.	
J. A. Eakin Criswell, New York,	632 East Capitol St.
LL. B., Columbian University, 1895.	
A. V. Cushman, Massachusetts,	1906 H St., N. W.
LL. B., Columbian University, 1892.	
LL. M., Columbian University, 1893.	
Clarence W. De Knight, District of Columbia.	University Club.
Edward S. Duvall, Jr., District of Columbia,	1628 6th St., N. W.
LL. B., Georgetown University, 1893.	
LL. M., Georgetown University, 1894.	
Edward Taylor Fenwick, District of Columbia,	602 F St., N. W.
LL. B., Columbian University, 1890.	
A. Irwin Gardner, District of Columbia,	1115 O St., N. W.
B. S., Worcester Polytechnic Institute, 1889.	
LL. B., Columbian University, 1892.	
Frederick L. Harvey, District of Columbia,	2146 Florida Ave., N. W.
LL. B., Columbian University, 1879.	
LL. M., Columbian University, 1880.	
William Moore Hatch, Vermont,	1343 Wallach Place, N. W.
LL. B., Columbian University, 1889.	
LL. M., Columbian University, 1890.	
Walter R. Hensey, District of Columbia,	406 M St., N. W.
LL. B., Columbian University, 1894.	
Herbert W. T. Jenner, District of Columbia.	608 F St., N. W.
J. Granville Meyers, Jr., District of Columbia,	501 F St., N. W.
LL. B., Columbian University, 1893.	
LL. M., Columbian University, 1894.	
Gales Pritchard Moore, District of Columbia,	Atlantic Building.
LL. B., Columbian University, 1894.	
LL. M., Columbian University, 1895.	

Name.	Address.
E. H. Parry, Connecticut, LL. B., Columbian University, 1894.	602 F St., N. W.
LL. M., Columbian University, 1895.	
George W. Rea, District of Columbia, William E. Schoenborn, New Jersey, LL. B., National Law University, 1889.	1947 Vermont Ave., N. W. Patent Office.
Edward G. Siggers, District of Columbia, Rexford M. Smith, Maryland, LL. B., Columbian University, 1884.	306 F St., N. W. 927 M St., N. W.
James M. Spear, District of Columbia, LL. B., Georgetown University, 1891.	1115 Harvard St., N. W.
Robert Watson, Jr., Maryland, LL. B., Georgetown University, 1895.	1454 Howard Ave., N. W.
David P. Wolhaupter, District of Co- lumbia.	67 N St., N. W.
William W. Wright, Jr., District of Co- lumbia, LL. B., Buffalo Law School, 1891.	12 Gunton Building.

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THE MEDICAL SCHOOL.

Faculty.

THE REV. BENAIHA L. WHITMAN, D. D.,
President.

D. KERFOOT SHUTE, M. D.,
Dean and Professor of Anatomy.

N. S. LINCOLN, M. D.,
Emeritus Professor of Surgery.

J. FORD THOMPSON, M. D.,
Professor of Surgery and President of the Faculty.

WILLIAM W. JOHNSTON, M. D.,
Professor of the Theory and Practice of Medicine and Clinical Professor
of Medicine.

ALBERT F. A. KING, M. D.,
Professor of Obstetrics and the Diseases of Women and Children and
Dean Emeritus.

D. WEBSTER PRENTISS, M. D.,
Professor of Materia Medica and Therapeutics.

E. A. DE SCHWEINITZ, M. D.,
Professor of Chemistry and Toxicology and Secretary-Treasurer.

WILLIAM P. CARR, M. D.,
Professor of Physiology.

H. C. YARROW, M. D.,
Professor of Dermatology.

GEORGE BYRD HARRISON, M. D.,
Professor of Pædiatrics and Clinical Professor of Medicine.

HENRY L. E. JOHNSON, M. D.,
Professor of Gynecology and Clinical Professor of Gynecology.

THOMAS E. McARDLE, M. D.,
Professor of Minor Surgery.

WILLIAM K. BUTLER, M. D.,
Professor of Ophthalmology and Clinical Professor of Ophthalmology.

STERLING RUFFIN, M. D.,
Professor of Medical Jurisprudence.

CHARLES W. RICHARDSON, M. D.,
Professor of Laryngology and Otology and Clinical Professor of
Laryngology and Otology.

A. CLARK PATTERSON, M. D.,
Professor of Mental Diseases.

EDMUND L. TOMPKINS, M. D.,
Professor of Nervous Diseases and Clinical Professor of Medicine.

VERANUS A. MOORE, M. D.,
Professor of Normal Histology.

A. R. SHANDS, M. D.,
Professor of Orthopedic Surgery.

JOHN VAN RENSSELAER, M. D.,
Professor of Surgical Pathology and Clinical Professor of Surgery.

WALTER REED, M. D.,
Professor of Pathology and Bacteriology.

W. F. R. PHILLIPS, M. D.,
Professor of Hygiene.

GEORGE N. ACKER, M. D.,
Clinical Professor of Medicine.

G. WYTHE COOK, M. D.,
Clinical Professor of Medicine.

JAMES KERR, M. D.,
Clinical Professor of Surgery.

J. FOSTER SCOTT, M. D.,
Clinical Professor of Obstetrics.

L. W. GLAZEBROOK, M. D.,
Associate Professor of Clinical Medicine and Curator of the Museum.

FRANCIS P. MORGAN, M. D.,
Professor of Pharmacology.

J. W. BOVÉE, M. D.,
Clinical Professor of Gynecology.

OSCAR A. M. McKIMMIE, M. D.,
Examiner of Applicants for Matriculation.

Demonstrators.

STERLING RUFFIN, M. D.,
Demonstrator of Anatomy.

E. G. SEIBERT, M. D.,
Demonstrator of Chemistry.

W. S. WASHBURN, M. D.,
RUPERT NORTON, M. D.,
Demonstrators of Normal Histology.

W. F. R. PHILLIPS, M. D.,
JOHN R. WELLINGTON, M. D.,
FRANK LEECH, M. D.,
PRESLEY C. HUNT, M. D.,
EDWARD Y. DAVIDSON, M. D.,
JAMES ROBB CHURCH, M. D.,
VIRGIL B. JACKSON, M. D.,
JAMES STUART, M. D.,
W. M. WOOSTER, M. D.,
Assistant Demonstrators of Anatomy.

CHARLES J. HOPKINS, M. D.,
GEO. B. HEINECKE, M. D.,
LINCOLN JOHNSON, M. D.,

Prosectors to the Chair of Anatomy.

JOHN R. WELLINGTON, M. D.,
FRANK LEECH, M. D.,

Demonstrators of Minor Surgery.

EDWARD E. MORSE, M. D.,
Demonstrator of Obstetrics.

T. A. CLAYTOR, M. D.,

Assistant to the Chair of Theory and Practice of Medicine.

The Seventy-fifth Course of Lectures begins on Wednesday, September 30, 1896.

The Introductory Lecture of the Course will be delivered by Prof. A. F. A. King on the 30th of September, and the regular lectures will continue throughout the session, beginning at 5.30 p. m. of each week day.

The system of instruction adopted by the Medical Department of this University includes lectures on Anatomy, Physiology, Chemistry, Materia Medica and Therapeutics, Surgery, Obstetrics, the Theory and Practice of Medicine, Hygiene, Bacteriology, Otolaryngology, Gynecology, Dermatology, Ophthalmology, Mental Diseases, Medical Jurisprudence, Nervous Diseases, Pædiatrics, Minor Surgery, Histology, Pathological Histology, Orthopedic Surgery, and Surgical Pathology.

These lectures are combined with clinical instruction in the various hospitals and dispensaries of the city. In these clinics the student is made familiar with the methods of examining patients, analyzing symptoms, making a diagnosis and prognosis of the cases, and recording medical histories. He is also taught to prescribe medicines and observe their effects, and to perform surgical operations.

Laboratory instruction is given in Chemistry, Histology and Pathological Histology, Bacteriology and Practical Pharmacy.

University Lectures.

Students of the Medical School are admitted, without further fee, to the University Lectures. When qualified to profit by them, they can secure admission to such lectures, other than Law lectures, given in the University Hall by applying to the Dean.

Advantages of Washington for Medical Study.

LIBRARIES, ARMY MEDICAL MUSEUM, NATIONAL MUSEUM, ETC.

The location of the University at the seat of the National Capital affords several striking advantages to the medical student. He has free access to the Libraries of Congress, of the Army Medical Museum, of the Smithsonian Institution, and of the Patent Office, all of which contain rare and costly works in every department of science and literature. The Army Medical Museum is also open for inspection daily from 9 to 3 o'clock. With its unrivaled collection of anatomical and pathological specimens, illustrating normal anatomy and the results of disease in every form, and an almost unlimited number of other preparations showing the effect of gunshot wounds and surgical injuries of every kind, this Museum presents a field for study superior to any other institution of the kind, either in this country or Europe.

Apart from these considerations, students from a distance have the opportunity of spending a winter profitably at the seat of the National Government during the sessions of Congress, the college lectures beginning at 5.30 in the evening. Ample time is afforded during the term for visiting the public buildings, works of art, and other places of interest to a stranger. Prominent among these may be mentioned the new National Museum, established in connection with the Smithsonian Institution. Here may be seen fully classified collections illustrating the arts and industries of the country, and, of special interest to the medical student, there is found in this Museum the most complete and best arranged collection of *Materia Medica* in the world. The drugs are shown in all their processes of manufacture, from the original package in which they are imported or marketed to the delicate alkaloid constituting the active principle.

Of great interest also are the Government Botanical Gardens and the grounds of the Agricultural Department, where the student of botany may find a rare collection of medicinal plants, from which are derived many of the preparations of the *Materia Medica*.

At the United States Patent Office models of many curious medical and surgical instruments may be daily inspected from 9 to 3 o'clock, thus affording to the student an opportunity of studying the mechanical contrivances used in medicine, surgery, and obstetrics that is not to be obtained in any other city.

GENERAL SKETCH OF THE SEVERAL LECTURE COURSES.

Surgery.

PROFESSOR THOMPSON,

One of the Attending Surgeons to the Children's Hospital and to the Garfield General Hospital.

The course will embrace Didactic Lectures upon the Principles and Practice of Surgery, and, as far as practicable, Clinical Instruction at the College.

Professor THOMPSON being the attending Surgeon of both the Children's Hospital and the Garfield Hospital, students are offered the opportunity for Clinical Instruction in these Institutions.

Every effort will be made to teach Surgery in accordance with the latest developments of scientific research. At the College, operations will be performed upon the cadaver, and the use of all important surgical instruments and appliances will be demonstrated in the same manner.

MINOR SURGERY.—Practical class instruction will be given by Professor McArdle and his Assistants in the application of splints, dressings, etc., for the various surgical diseases and injuries.

Theory and Practice of Medicine.

PROFESSOR JOHNSTON.

One of the Consulting Physicians to the Children's Hospital, to the Garfield Hospital, and to the Central Dispensary and Emergency Hospital.

The Course of Lectures on the Theory and Practice of Medicine begins with the consideration of the pathological anatomy and symptomatology of the general morbid processes, which occur in many diseases, and to which all the structures of the body are liable. General or constitutional diseases and local diseases, or diseases of organs, are described in order. As the subjects taught from the Chair are so numerous and cover so

wide a field, two years are required to complete the course. The lectures of each year, therefore, form a distinct and complete series, and it is necessary for the student to follow attentively the Lectures during two successive years in order to finish his studies in this branch.

The courses on Histology and Pathological Histology cannot be neglected without serious detriment to progress, and are absolutely necessary to a complete understanding of the studies of this Chair. They are considered obligatory studies.

The hospitals and dispensaries of the city afford abundant opportunity for the observation of disease, and no chance should be lost to gain a practical knowledge of the methods of examining cases and of the art of diagnosis. The student should also make an effort to study morbid anatomy by witnessing as many autopsies as is possible, for in this way only can he acquire definite and clear ideas of the appearance of morbid tissues.

Obstetrics and the Diseases of Women and Children.

PROFESSOR KING,

One of the Consulting Physicians to the Children's Hospital.

This course will comprise a series of Lectures on the Science and Practice of Midwifery, together with additional Lectures on Gynecology. The main purpose of the Lecturer will be to explain, impress, and simplify the matters to be studied in the books, so as to render them more easily intelligible, and hence more pleasing and satisfactory to the student. With this view the Lectures will be illustrated by diagrams, models, natural preparations, manikins, and instruments.

Mathieu's new elastic manikin, for demonstrating obstetrical operations, has been added to the illustrative apparatus.

In the Department of Gynecology the various instruments and appliances required in treating the Diseases of Women will be exhibited and their uses fully explained.

Materia Medica and Therapeutics.**PROFESSOR PRENTISS,**

One of the Consulting Physicians to the Children's Hospital and to the Central Dispensary and Emergency Hospital.

In the course of instruction pertaining to this Chair especial prominence will be given to the Physiological action of medicines and their therapeutic uses.

The value of a knowledge of Pharmacy and of the Natural History and Chemical Relations of the *Materia Medica* is not overlooked, but time does not admit of their being considered in great detail in the lecture-room. They are rather proper subjects for recess study.

The art of prescribing will have a place in the consideration of individual drugs, particularly with reference to appropriate combinations, much of the success of the practitioner depending upon the practical application of his knowledge in the sick-room.

It will be the endeavor of Professor Prentiss to make his instruction as practical as possible. The lectures will be supplemented by working prescriptions and blackboard illustrations, as occasion will admit.

From this Chair the student will be taught the use of the Metric System in Medicine.

A Pharmacal Laboratory, in connection with the Chair of *Materia Medica* and Therapeutics, has been established.

In this laboratory the students will be taught the methods of making the different Pharmaceutical Preparations, such as Infusions, Decoctions, Tinctures, Syrups, and the like.

They will also be taught the compounding of prescriptions; the proper excipients for pills; incompatibles, especially such as produce dangerous compounds, and will be expected to actually compound working formulæ.

Anatomy.**PROFESSOR SHUTE,**

Ophthalmic Surgeon to the Washington Hospital for Foundlings and to the South Washington Free Dispensary.

This course of Lectures is arranged with the view of rendering the didactic instruction in Anatomy as full and complete as the limits of the session will allow.

Sufficient knowledge of the anatomical structure of the human body to

qualify one for the practice of medicine may be acquired during the two courses of Lectures from the Chair, which each student attends, if at the same time he do his duty in the dissecting-room.

The Lectures will be illustrated by frequent reference to recent dissections and numerous drawings and diagrams. The sciopticon will also be employed constantly to present photographic views of many regions of the body.

Special attention will be given during the course to the Surgical and Medical Relations of human anatomy, which are of so great importance in the practice of the Medical Profession.

Public oral examinations are conducted by the Lecturer from time to time.

The Prosectors will prepare the subject for the Lecturer.

The Demonstrator of Anatomy and his assistants give their personal attention to the students in the dissecting-room.

PRACTICAL ANATOMY.—The dissecting-room of this College is large, thoroughly ventilated, well lighted, and furnished with every requisite for the convenience and comfort of the student. Anatomical material is abundantly supplied at a moderate price, only sufficient to cover the expense of procuring and preparing it. The room is open both during the day and night until 11 p. m., or even later on some occasions. It is under the supervision of the Faculty and the immediate direction of the Demonstrator of Anatomy, who is present *at stated hours* to give personal attention to the students and properly instruct them in their dissections. In the absence of the Demonstrator one of his assistants will be present to instruct the classes.

Chemistry and Toxicology.

PROFESSOR DE SCHWEINITZ,

Chemist of the Biochemic Laboratory, Bureau of Animal Industry, Department of Agriculture.

This course embraces—

A short discussion of the principles of Physics in their relation to Chemistry, the principles of chemical philosophy, the laws of chemical combination and affinity.

The elements, metals and non-metals; their methods of isolation, properties, compounds, and reactions, will be studied.

Due attention will be given to Organic Chemistry, especially those compounds that are of use in medicine.

Laboratory instruction will be given in the general methods of qualitative and quantitative analysis, toxicology, urine analysis, water analysis, and special clinical analyses.

Opportunity for advanced work in Biochemistry will be afforded.

Physiology.

PROFESSOR CARR.

Every effort will be made to teach this subject in a thorough, scientific, and practical manner. The ground will be fully covered by a two years' course of Lectures, and these Lectures so illustrated by modern diagrams, models, and experiments as to make them perfectly clear in every detail. Especial emphasis will be given to those truths that have a practical value.

Physiological anatomy will receive especial attention, and will be illustrated by charts, diagrams, working models, and anatomical specimens in all cases and by demonstrations upon anaesthetized living animals when necessary to a thorough understanding of the subject. Physiological anatomy will also be taught by Professor MOORE in the Laboratory, and an opportunity will be given students to do practical physiological work as far as their time will permit.

Dermatology.

PROFESSOR YARROW.

Professor YARROW will give a course of Lectures on this branch, illustrated by diagrams, models, and the exhibition of cases.

Pædiatrics.

PROFESSOR HARRISON,

In Charge of the Department of General Medicine, Central Dispensary and Emergency Hospital.

Professor HARRISON will lecture upon diseases of infants and children and the importance of their proper management by diet and hygiene.

Gynecology.**PROFESSOR JOHNSON,**

In Charge of the Department of Gynecology, Central Dispensary and Emergency Hospital.

Professor JOHNSON will illustrate his lectures upon the diseases peculiar to women by clinical demonstrations at the hospital.

Minor Surgery.**PROFESSOR McARDLE,**

One of the Assistant Physicians to the Children's Hospital.

Professor McARDLE's course in Minor Surgery will consist of lectures and practical demonstrations. Under the supervision of his assistants, the students will apply themselves the various splints, bandages, surgical dressings, etc.

Ophthalmology.**PROFESSOR BUTLER.**

In Charge of the Lutheran Eye and Ear Infirmary.

Professor BUTLER will give a didactic course on this subject, together with clinical instruction at the Lutheran Eye and Ear Infirmary.

Medical Jurisprudence.**PROFESSOR RUFFIN.**

Professor RUFFIN's course will deal with the relations of physicians to matters of legal investigation, and the students will be taught how to give expert testimony and how to conduct themselves as witnesses.

Laryngology and Otology.**PROFESSOR RICHARDSON,**

Laryngologist to the Providence Hospital.

This course will comprise lectures on diseases of the nasal passages, pharynx, larynx, and also the ear.

Practical instruction will be given in the use of the laryngoscope and other instruments required in these special branches.

Mental Diseases.

PROFESSOR PATTERSON,

One of the Assistant Physicians to the Government Hospital for the Insane,
St. Elizabeth.

Professor PATTERSON will give a series of lectures upon the subject of insanity in its varied forms. Clinical instruction will also be given at the hospital.

Nervous Diseases.

PROFESSOR TOMPKINS,

In Charge of the Department of Nervous Diseases at the Central Dispensary and
Emergency Hospital.

Professor TOMPKINS will lecture upon the more common and important of these affections.

Surgical Pathology.

PROFESSOR VAN RENSSELAER,

One of the Surgeons to the Garfield Hospital.

Dr. VAN RENSSELAER will give a series of lectures upon the Pathological Anatomy of Surgical Diseases and Injuries and upon Surgical Bacteriology, illustrated by means of charts and photographs.

Orthopedic Surgery.

PROFESSOR SHANDS.

This course will embrace didactic lectures on the Pathology, Etiology, Course and Termination of all Chronic Joint Diseases, and, as far as practicable, with clinical instruction of treatment of the same according to the most modern orthopedic methods.

Special attention will be given to the correction of all deformities, either acquired or congenital, by both mechanical and operative measures; also practical illustrations as to applications of all of the most modern orthopedic appliances.

Practical instruction will be given in the application and use of plaster of Paris in treatment of Potts' Disease, Scoliosis, Club Feet, etc.

Histology.

PROFESSOR MOORE.

The study of Histology is compulsory for students through the first two years of their course. In the first year special attention will be given to the manipulation of the microscope and to that part of the technique necessary for an intelligent study of tissues. This will be followed in the latter part of the first session and throughout the second year by a systematic study of the cellular structure of the elementary tissues and organs of the body. The histological laboratory is well equipped with microscopes and accessory apparatus necessary for carrying out a thoroughly practical course of study in this subject. Examinations will be held at the close of each session.

Pathology and Bacteriology.

PROFESSOR REED.

The course in Pathology begins with the study of inflammation, and takes up, in regular order, the pathological histology of the different tissues and organs of the body. Microscopical sections are given to be stained, mounted, and carefully studied and drawn.

Opportunities will be afforded to witness post-mortem examinations from time to time, which is considered a part of the pathological course.

In connection with the demonstration of fresh pathological material, use will be made of frozen microscopical sections of the fresh specimens.

In addition to the foregoing, examination of blood and urine is included as a part of the course in Pathology.

The Bacteriological course will consist of practical work in the bacteriological laboratory. The student is here taught the preparation of culture media, the principles of disinfection and sterilization, and the methods of cultivating, staining, and studying bacteria. Familiarity with the pathogenic bacteria is considered the most important part of this course.

Laboratory Instruction.

The new laboratories have been furnished with the necessary apparatus and with all modern appliances for practical instruction in Chemistry, Bacteriology, Normal and Pathological Histology and Pharmacy, as above described.

During the past year the Faculty have prepared a room for a Pathological Museum and equipped it with a large number of interesting and valuable specimens. Dr. L. W. Glazebrook, the deputy coroner of the District of Columbia, has been made Curator of the Museum, and from time to time adds valuable specimens to the Museum.

Clinical Instruction.

Attendance upon Clinical Instruction in Medicine and Surgery, during at least two years, *is required*, and when the student presents himself for examination a certificate to this effect must be furnished.

GARFIELD HOSPITAL.—Clinical Lectures will be given regularly during the session by Professor THOMPSON on Surgery, and by Professors ACKER and COOK on Medicine. A great variety of medical and surgical diseases is to be seen in this institution, affording abundant material for clinical diagnosis and operative surgery.

CHILDREN'S HOSPITAL.—A weekly course of Medical and Surgical Clinics will be given by Professors W. W. JOHNSTON, THOMPSON, and ACKER. An opportunity is here afforded of observing all the medical and surgical diseases, injuries, etc., to which children are liable. The dispensary service of the Hospital is very large and instructive.

CENTRAL DISPENSARY AND EMERGENCY HOSPITAL.—Professors HARRISON, in charge of the department of general medicine, and TOMPKINS, in charge of nervous diseases; H. L. E. JOHNSON, in charge of the department of diseases of women, and JAMES KERR, in charge of the department of surgical diseases, will conduct courses of instruction in their respective branches.

PROVIDENCE HOSPITAL.—Clinical instruction, both medical and surgical, is given by the staff of this institution.

LUTHERAN EYE AND EAR INFIRMARY.—The diseases of the eye and ear in this hospital will be exhibited during the clinics of Professor BUTLER.

Requirements for Matriculation and Graduation.

I. Matriculants will be required to show that they are fitted, by previous education, for the study of medicine, and for this purpose they must either submit themselves to an examination or in lieu thereof present a satisfactory certificate of their attainments from some college.

Should an examination be necessary, it will comprise the following subjects:

1. English composition.
2. Translation of easy Latin prose.
3. Elements of Algebra or Higher Arithmetic.
4. Elementary Physics.

Students conditioned or unable to undergo the examination in Latin or in Elementary Physics may obtain instruction on these subjects during the Freshman year, and on passing a satisfactory examination before the beginning of the second year will be admitted to matriculation.

Students desiring instruction in Latin, Physics, etc., may obtain it from Dr. O. A. M. McKIMMIE, 1333 N street, N. W., to whom they are referred for particulars as to the arrangement of time, fees, etc.

II. Candidates for the degree of Doctor of Medicine must have attended four courses of lectures, the subjects arranged as follows:

FIRST YEAR.

Anatomy.—Two lectures per week before Christmas; three lectures per week after Christmas.

Physiology.—Two lectures per week before Christmas; three lectures per week after Christmas.

Chemistry.—Three lectures per week before Christmas; two lectures per week after Christmas; four hours laboratory work per week.

Materia Medica and Pharmacy.—Three lectures per week before Christmas; two lectures per week after Christmas; one hour laboratory work.

Practical Anatomy.—Dissection-room open during the day and until 12 o'clock at night.

Examination at the end of the year upon the above-named subjects.

SECOND YEAR.

Anatomy.—Two lectures per week before Christmas; three lectures per week after Christmas.

Physiology.—Two lectures per week before Christmas; three lectures per week after Christmas.

Chemistry.—Three lectures per week before Christmas; two lectures per week after Christmas; four hours laboratory work.

Materia Medica and Pharmacy.—Three lectures per week before Christmas; two lectures per week after Christmas; one hour laboratory work.

Practical Anatomy.—Dissection-room open all day and until 12 o'clock at night.

Examination at the end of this year upon the above-named subjects.

THIRD YEAR.

Surgery.—Three lectures per week before Christmas; two lectures per week after Christmas.

Medicine.—Two lectures per week before Christmas; three lectures per week after Christmas.

Obstetrics.—Three lectures per week before Christmas; two lectures per week after Christmas.

Minor Surgery.—One lecture per week from October 1 to December 10, bandaging, etc., in the manikin-room.

Dermatology.—One lecture per week from January 5 to March 9.

Ophthalmology.—One lecture per week from October 6 to December 8.

Bacteriology and Pathology.—Eight hours laboratory work per week.

Surgical Pathology.—One lecture per week from October 3 to December 5.

Clinics.

Examination on the above-named subjects at the end of the year.

FOURTH YEAR.

Surgery.—Three lectures per week before Christmas; two lectures per week after Christmas.

Medicine.—Two lectures per week before Christmas; three lectures per week after Christmas.

Obstetrics.—Three lectures per week before Christmas; two lectures per week after Christmas.

Gynecology.—One lecture per week from January 7 to March 11.

Mental Diseases.—One lecture per week from January 5 to March 9.

Medical Jurisprudence.—One lecture per week from October 1 to December 10.

Nervous Diseases.—One lecture per week from January 2 to March 6.

Pædiatrics.—One lecture per week from October 5 to December 7.

Otology and Laryngology.—One hour per week from November 2 to December 21, and from January 4 to March 29.

Orthopedic Surgery.—One lecture per week from January 2 to March 6.

Hygiene.—One lecture per week from January 6 to March 10.

Clinics.

Final examination at the close of the fourth year upon the above-named subjects.

ORDER OF LECTURES, DAILY.—FIRST YEAR, 1895-'96.
BEFORE CHRISTMAS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30		CHEMISTRY. Lower Room.		CHEMISTRY. Lower Room.		CHEMISTRY. Lower Room.
6.30		MATERIA MEDICA AND THERAPEUTICS. Lower Room.	ANATOMY. Upper Room.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.		MATERIA MEDICA AND THERAPEUTICS. Lower Room.
7.30	PHYSIOLOGY. Upper Room.	CHEMISTRY. Laboratory.	PRACTICAL ANATOMY.	CHEMISTRY. Laboratory.	PHYSIOLOGY. Lower Room.	ANATOMY. Upper Room.
8.30	PRACTICAL ANATOMY.	CHEMISTRY. Laboratory.		CHEMISTRY. Laboratory.	PRACTICAL ANATOMY.	PRACTICAL PHAR- MACY.

AFTER CHRISTMAS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30		CHEMISTRY. Lower Room.	PRACTICAL PHAR- MACY.			CHEMISTRY. Lower Room.
6.30		MATERIA MEDICA. Lower Room.	ANATOMY. Upper Room.		ANATOMY. Upper Room.	MATERIA MEDICA. Lower Room.
7.30	ANATOMY. Upper Room.	CHEMISTRY. Laboratory.	PHYSIOLOGY. Lower Room.	PRACTICAL ANATOMY.	PHYSIOLOGY. Lower Room.	CHEMISTRY. Laboratory.
8.30	PHYSIOLOGY. Lower Room.	CHEMISTRY. Laboratory.		PRACTICAL ANATOMY.		CHEMISTRY. Laboratory.

ORDER OF LECTURES, DAILY.—SECOND YEAR, 1895-'96.
BEFORE CHRISTMAS.

THE MEDICAL SCHOOL.

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HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	HISTOLOGY. Laboratory.	CHEMISTRY. Lower Room.	PRACTICAL ANATOMY.	CHEMISTRY. Lower Room.	HISTOLOGY. Laboratory.	CHEMISTRY. Lower Room.
6.30	HISTOLOGY. Laboratory.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.	ANATOMY. Upper Room.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.	HISTOLOGY. Laboratory.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.
7.30	PHYSIOLOGY. Upper Room.	CHEMISTRY. Laboratory.	PRACTICAL ANATOMY.	CHEMISTRY. Laboratory.	PHYSIOLOGY. Lower Room.	ANATOMY. Upper Room.
8.30		CHEMISTRY. Laboratory.		CHEMISTRY. Laboratory.		PRACTICAL PHAR- MACY.

AFTER CHRISTMAS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	HISTOLOGY. Laboratory.	CHEMISTRY. Lower Room.	PRACTICAL PHAR- MACY.	HISTOLOGY. Laboratory.	PRACTICAL ANATOMY.	CHEMISTRY. Lower Room.
6.30	HISTOLOGY. Laboratory.	MATERIA MEDICA. Lower Room.	ANATOMY. Upper Room.	HISTOLOGY. Laboratory.	ANATOMY. Upper Room.	MATERIA MEDICA. Lower Room.
7.30	ANATOMY. Upper Room.	CHEMISTRY. Laboratory.	PHYSIOLOGY. Lower Room.		PHYSIOLOGY. Lower Room.	CHEMISTRY. Laboratory.
8.30	PHYSIOLOGY. Lower Room.	CHEMISTRY. Laboratory.				CHEMISTRY. Laboratory.

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ORDER OF LECTURES, DAILY.—THIRD YEAR, 1895-'96.
BEFORE CHRISTMAS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	SURGERY. Upper Room.		SURGERY. Upper Room.		SURGERY. Upper Room.	
6.30	OBSTETRICS. Upper Room.	(Oct. 6 to Dec. 8.) OPHTHALMOLOGY. Upper Room.	OBSTETRICS. Lower Room.		OBSTETRICS. Upper Room.	(Oct. 3 to Dec. 5.) SURGICAL PATHOLOGY. Upper Room.
7.30	BACTERIOLOGY. Laboratory.	PRACTICE. Lower Room.	BACTERIOLOGY. Laboratory.		BACTERIOLOGY. Laboratory.	PRACTICE. Lower Room.
8.30	BACTERIOLOGY. Laboratory.		BACTERIOLOGY. Laboratory.	(Oct. 1 to Dec. 10.) MINOR SURGERY AND BANDAGING. Special Room.	BACTERIOLOGY. Laboratory.	

AFTER CHRISTMAS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	SURGERY. Upper Room.				SURGERY. Upper Room.	
6.30	OBSTETRICS. Upper Room.				OBSTETRICS. Lower Room.	
7.30	PATHOLOGY. Laboratory.	PRACTICE. Lower Room.	PATHOLOGY. Laboratory.	PRACTICE. Lower Room.	PATHOLOGY. Laboratory.	PRACTICE. Lower Room.
8.30	PATHOLOGY. Laboratory.	(Jan. 5 to March 9.) DERMATOLOGY. Lower Room.	PATHOLOGY. Laboratory.		PATHOLOGY. Laboratory.	

ORDER OF LECTURES, DAILY.—FOURTH YEAR, 1895-'96.
BEFORE CHRISTMAS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	SURGERY. Upper Room.		SURGERY. Upper Room.		SURGERY. Upper Room.	
6.30	OBSTETRICS. Upper Room.		OBSTETRICS. Lower Room.	(Oct. 1 to Dec. 10.) MEDICAL JURISPRU- DENCE. Upper Room.	OBSTETRICS. Upper Room.	
7.30	(Oct. 5 to Dec. 7.) PEDIATRICS. Lower Room.	PRACTICE. Lower Room.		PRACTICE. Lower Room.		PRACTICE. Lower Room.
8.30	(Nov. 2 to Dec. 21.) OTOLOGY AND LARYN- GOLOGY. Lower Room.					

AFTER CHRISTMAS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	SURGERY. Upper Room.				SURGERY. Upper Room.	
6.30	OBSTETRICS. Upper Room.	(Jan. 5 to March 9.) MENTAL DISEASES. Upper Room.	(Jan. 6 to March 10.) HYGIENE. Lower Room.	(Jan. 7 to March 11.) GYNECOLOGY. Upper Room.	OBSTETRICS. Lower Room.	(Jan. 2 to March 6.) NERVOUS DISEASES. Upper Room.
7.30	(Jan. 4 to March 29.) OTOLOGY AND LARYN- GOLOGY. Lower Room.	PRACTICE. Lower Room.		PRACTICE. Lower Room.		PRACTICE. Lower Room.
8.30						(Jan. 2 to March 6.) ORTHOPEDIC SUB- GERY. Upper Room.

Clinical Instruction.

Surgical Clinics, by Professor THOMPSON, at Garfield Hospital, on Sunday, at 11 a. m., and at the Children's Hospital at 2 p. m., during the entire course.

Medical Clinics, by Professor JOHNSTON, from October to January; by Professor ACKER, at the Garfield Hospital, on Tuesday, at 4 p. m., and by Professor G. WYTHE COOK, at the Garfield Hospital.

Clinics on the special branches will be given by Professor ACKER, at the Children's Hospital, from January to April; by Professor H. L. E. JOHNSON, at the Emergency Hospital, on Gynecology; by Professor RICHARDSON, on Laryngology and Otology, at the Lutheran Eye and Ear Infirmary; by Professor BUTLER, on the Diseases of the Eye, at the Lutheran Eye and Ear Infirmary, and by Professor TOMPKINS, on the Diseases of the Nervous System, at the Emergency Hospital.

When the student presents himself for graduation he must furnish a certificate from Drs. THOMPSON, KERR, or VAN RENSSELAER that he has attended two full courses of instruction in clinical surgery, and from Drs. JOHNSTON, ACKER, or COOK that he has attended two full courses of clinical medicine.

III. Students of other institutions who have attended one course of lectures in any regular medical school will be placed upon the same footing with those who have attended one course in this College, and those who have attended two (or three) courses of lectures in any other regular college or colleges will rank with those who have attended two (or three) courses in this Institution, and the same privileges as regards examination will be extended to them—that is to say, they will be admitted respectively as second, third, or fourth year students after passing a satisfactory examination upon the subjects required of our own students during the first, second, and third years, as previously described.

IV. Candidates for graduation must have studied medicine four years. They must be of good moral character and at least twenty-one years of age.

V. The candidate must have dissected at least two sessions, during each of which he shall be required to dissect two "parts" of a subject, and it is recommended that he dissect three parts. He must have attended also two courses of clinical instruction.

VI. One month before the close of the session he shall enter his name with the Dean of the Faculty as a candidate for graduation, and at the end of the term present himself for examination. The examination will

be both written and oral. The examination for the degree will be held at the end of the session in April.

The diploma is granted only at the Annual Commencement in May.

VII. Graduates of other accredited medical colleges must pass a satisfactory examination on the essential branches of medicine before receiving a diploma from this University.

VIII. Students who fail to pass the examinations in the spring will be allowed a re-examination in the following fall.

Fees, Regulations, etc.

For the session of 1895-1896 and thereafter the fee for each year (for new matriculants) will be \$106. This covers all expenses, laboratories and dissection included. Of this amount at least \$25 must be paid upon entrance.

Matriculation Fee, payable only once.....	\$5 00
Single Tickets.....	20 00
Practical Anatomy, by the Demonstrator.....	10 00
Full Course, first year.....	75 00
Full Course, second year.....	75 00
Full Course, third year.....	75 00
Full Course, fourth year.....	75 00

This annual fee of seventy-five dollars does *not* include the ticket of the Demonstrator of Anatomy nor any fee for laboratory work, but *does* include all examination fees and clinical instruction.

Students who matriculated during or before the session of 1892-'93, prior to the adoption of the four-year plan, will be charged in conformity with the old regulations, as follows:

FIRST COURSE: Four Primary Tickets.....	\$60 00
Practical Anatomy, by the Demonstrator.....	10 00
Total.....	\$75 00
SECOND COURSE: Four Primary Tickets.....	\$60 00
Three Final Tickets.....	45 00
Practical Anatomy, by the Demonstrator.....	10 00
Examination Fee (Primary Branches).....	20 00
Total.....	\$135 00
THIRD COURSE: Three Final Tickets.....	\$45 00
Examination Fee (Final Branches).....	10 00
Total.....	\$55 00

The expense for Laboratory tickets to *all* students for Chemistry, Histology, Bacteriology, and Pathological Histology will be five dollars for *each branch* (total, \$20). A deposit will be required to defray the expense of material used and apparatus destroyed in the chemical laboratory.

Payment of the fees is required in all cases, and tickets must be taken out at the commencement of the session, *unless special arrangement be made with the Dean or Secretary-Treasurer to suit the convenience of the student.*

Fees are to be paid to the Secretary-Treasurer.

By virtue of a liberal endowment from the late Mr. W. W. CORCORAN, this College is enabled to offer *six* free Scholarships.

Two of these Scholarships are open to the graduates of the several High Schools of the District of Columbia for competitive examination. These two Scholarships will be awarded to the two students whose averages are highest.

Two of the Scholarships are open, for competitive examination, to graduates of any reputable High School or College (preference being given to those in the District of Columbia), who shall give satisfactory written evidence of *pecuniary inability* and certificates of good moral character and industry. These two Scholarships will be awarded to the two graduates whose averages are highest.

The remaining *two* of those Scholarships are open, for competitive examination, to students who, though not graduates of any High School or College, yet give satisfactory evidence that they are fitted by previous education for the study of medicine, and at the same time give satisfactory written evidence of *pecuniary inability* and certificates of good moral character and industry. These two Scholarships will be awarded to the two students whose averages are highest.

In addition to the above-mentioned six Corcoran Scholarships, the Faculty offer two Medical Missionary Scholarships, which shall be given to those applicants, judged by the President of the University best qualified to enter upon the study of medicine for the purpose of becoming Medical Missionaries.

Applications should be addressed to the Dean and sent in not later than the first of September.

Graduates of other accredited Medical Colleges, after five years, are required to matriculate only. Prior to the expiration of five years the fee for a general ticket is \$75.

The degrees are conferred by the authority of the Columbian University, incorporated by act of Congress of the United States of America.

The prices of board range from \$12 to \$30 per month, and rooms may be obtained for \$10 and upward per month, according to location, etc.

The College Building is situated opposite a Government reservation, at No. 1325 H street N. W., and is within half a square of three lines of street cars going to every part of the city.

Students desiring further information are requested to address

DR. D. K. SHUTE, *Dean*,
1120 New York Avenue N. W., Washington, D. C.

Or—

DR. E. A. DE SCHWEINITZ,
Secretary-Treasurer, 1325 H Street N. W.

Prizes.

At the end of the term a General Examination Prize of *fifty dollars* will be awarded. It will be given to the candidate for graduation who shall pass the best general examination.

The Faculty will award two additional prizes—one for proficiency in *Clinical Medicine*, and one for proficiency in *Clinical Surgery*.

In addition to these, Professor H. C. Yarrow gives a prize for the best examination in *Dermatology*; Professor H. L. E. Johnson gives one for the best examination in *Clinical Gynecology*, and Professor Sterling Ruffin gives one for the best examination in *Medical Jurisprudence*.

At the Commencement in May, 1895, the General Examination Prize was awarded to EDWARD E. RICHARDSON, of Vermont, first honorable mention being made of J. HAMILTON STONE, of the District of Columbia; second honorable mention of GEORGE T. PREWITT, of Texas, and third honorable mention of FANNIE C. BREWER, of Maryland.

The Faculty Prize in *Clinical Medicine* was given to Dr. JOHN HAMILTON STONE, of the District of Columbia.

The H. C. Yarrow Prize in *Dermatology* was awarded to WARREN DEXTER FALES, of Illinois. The H. L. E. Johnson Prize in *Clinical Gynecology* was awarded to HOMER L. SPAULDING, of Kansas, and the Sterling Ruffin Prize in *Medical Jurisprudence* to WILLIAM A. TYLER, of Kansas.

The degree of Doctor of Medicine was conferred upon Professor E. A. DE SCHWEINITZ.

Graduates in Medicine, 1895.

Name.	Residence.
Fannie C. Brewer, 212 Indiana Ave., N. W.	Maryland.
De Witt C. Chadwick, 61 I St., N. W.	Ohio.
Henry K. Craig, 2020 G St., N. W.	Maine.
George W. Currier, 2932 14th St., N. W.	Maine.
John Dale, 806 11th St., N. W.	Pennsylvania.
Henry M. Dixon, 1100 18th St., N. W.	Mississippi.
W. H. Dobson, 100 11th St., N. E.	Pennsylvania.
Warren Dexter Fales, 1222 H St., N. W.	Illinois.
Alfred G. Grunwell, 1515 30th St., N. W.	District of Columbia.
Bernard S. Hardin, 1307 Corcoran St., N. W.	Virginia.
Ralph A. Harding, 1625 Madison St., N. W.	District of Columbia.
J. R. Johnson, 920 N St., N. W.	Virginia.
Joseph F. James, U. S. National Museum.	Ohio.
W. A. Kinnan, 1936 5th St., N. W.	Michigan.
U. S. G. Keller, 1807 13th St., N. W.	Pennsylvania.
Frank A. Kirby, 2420 14th St., N. W.	Massachusetts.
Kate E. Lozier, 1401½ 14th St., N. W.	Connecticut.
L. Fleet Luckett, 1625 14th St., N. W.	Maryland.
G. N. McLoughlin, 813 12th St., N. W.	Tennessee.
Wm. L. Masterson, 815 North Capitol St.	Ohio.
F. P. Magennis, Brightwood, D. C.	Pennsylvania.
Frank A. Mazzie, 216 Arthur Place, N. W.	District of Columbia.
Homer S. Medford, 138 C St., N. E.	District of Columbia.
William S. Newell, 626 C St., N. E.	Indiana.
George T. Prewitt, 1119 B St., N. E.	Texas.
Tunis C. Quick, Falls Church, Va.	Virginia.
David E. Quinn, 1414 Q St., N. W.	Ohio.
Arthur C. Rauterberg, 510 5th St., N. W.	District of Columbia.
V. B. Rench, 438 7th St., N. W.	District of Columbia.
Edward E. Richardson, 316 4½ St., S. W.	Vermont.
Milo H. Sutliff, 2313 Pennsylvania Ave., N. W.	Ohio.
Percy G. Smith, Children's Hospital.	Maryland.
Homer L. Spaulding, 718 11th St., N. W.	Kansas.
John Hamilton Stone, Brightwood, D. C.	District of Columbia.
James R. Tubman, 816 12th St., N. W.	District of Columbia.
William A. Tyler, 322 Elm St., N. W.	Kansas.
William O. Wetmore, 513 3d St., N. W.	New York.

Medical Undergraduates.

Name.

Residence.

May D. Baker, 1434 S St., N. W.	Kansas.
Frank A. Barbour, 1327 12th St., N. E.	Mississippi.
Joel Curry, 721 8th St., N. W.	Georgia.
H. A. Dunn, 488 I St., S. W.	District of Columbia.
Marion Dorsett, 1120 New York Ave., N. W.	Pennsylvania.
J. M. Fairly, 918 I St., N. W.	Mississippi.
J. H. Ford, 314 2d St., S. E.	District of Columbia.
W. Ashby Frankland, 916 8th St., N. W.	Virginia.
H. R. Garland, Coast and Geodetic Survey Office.	Virginia.
E. L. Goodall, 1230 14th St., N. W.	Vermont.
Oscar J. Gwynn, 1118 New Hampshire Ave., N. W.	Colorado.
James R. Hamilton, R. and P. Office, War Dep't.	Texas.
F. McG. Hartsock, 1008 K St., N. W.	District of Columbia.
Montgomery Hunter, U. S. Post Office Department.	Virginia.
A. B. Hooe, 915 I St., N. W.	Virginia.
P. C. Hutton, 309 1st St., S. E.	North Carolina.
Charles James, 109 C St., S. E.	District of Columbia.
John E. Jones, 1213 O St., N. W.	Ohio.
C. R. Johnson, 1014 11th St., N. W.	Delaware.
G. F. Juenemann, 310 6th St., N. W.	District of Columbia.
J. A. Koch, Garfield Hospital.	Illinois.
A. L. Lawrence, 1211 F St., N. W.	Ohio.
Hanson T. A. Lemon, 629 G St., S. W.	District of Columbia.
V. A. Lewis, 1634 15th St., N. W.	Maryland.
R. S. Lynch, 2449 P St., N. W.	Indiana.
W. M. Matthews, 1414 H St., N. W.	Louisiana.
W. P. Mills, 1132 10th St., N. W.	Maryland.
Charles McCulloch, 2650 14th St., N. W.	Virginia.
James S. McIlhenny, Hotel Oxford.	District of Columbia.
W. J. Olds, 1413 N St., N. W.	Michigan.
C. W. Orr, 525 10th St., S. E.	New York.
R. D. Pope, 630 I St., N. W.	Illinois.
Woodbury Pulsifer, 1417 R St., N. W.	Maine.
D. N. Reeve, 933 H St., N. W.	Iowa.
Henry M. Seltzer, 445 5th St., N. E.	Pennsylvania.
D. B. Street, 1102 9th St., N. W.	District of Columbia.
Denny de S. Verdi, 815 14th St., N. W.	District of Columbia.
Thomas A. Whittington, 451 M St., N. W.	Nebraska.
Edwin P. Wolfe, 17 Grant Place.	Iowa.

Students in Medicine, 1895-1896.

Name.	Residence.
Lewis S. Atkins, 1231 New York Ave., N. W.	North Carolina.
J. Howard Allen, 940 New York Ave., N. W.	Tennessee.
J. N. Baker, 310 7th St., N. E.	Kansas.
O. Baker, 609 E St., N. W.	New Jersey.
B. F. Blye, Jr., 115 7th St., N. E.	New York.
Eugene I. Brown, 827 5th St., N. W.	Texas.
N. I. Barron, 1108 F St., N. W.	Alabama.
Frank A. Barbour, 1327 12th St., N. E.	Mississippi.
Arthur R. Butler, 216 11th St., S. W.	Oregon.
Richard Breden, 222 G St., N. W.	Wisconsin.
G. L. Baker, 140 A St., N. E.	South Carolina.
A. D. Butz, 218 9th St., S. W.	Pennsylvania.
S. Alford Blackburn, Kensington, Md.	Kentucky.
George M. B. Bradshaw, R. and P. O., War Dep't.	Pennsylvania.
A. F. Cook, 1215 I St., N. W.	Virginia.
C. O. Coleman, 827 4th St., N. E.	Virginia.
J. Wendal Clarke, 1709 21st St., N. W.	District of Columbia.
Edgar C. Campbell, 1439 Howard Ave., N. W.	District of Columbia.
Elmon A. A. Cook, 712 4th St., S. E.	District of Columbia.
James C. S. Cannon, Box 88, Anacostia, D. C.	England.
George L. Clayton, 436½ H St., N. W.	Louisiana.
C. A. Clemons, 1443 Corcoran St., N. W.	New York.
Percy M. Cox, 1300 Pennsylvania Ave., N. W.	Maryland.
V. K. Chesnut, Department of Agriculture.	California.
T. P. Chapman, 1108 F St., N. W.	Texas.
J. E. Clark, Terra Cotta, D. C.	District of Columbia.
Joel T. Curry, 721 8th St., N. W.	Georgia.
Thomas Dowling, Jr., 614 E St., N. W.	District of Columbia.
George B. Driesbock, 512 B St., N. E.	Wisconsin.
Harry J. Dunn, 488 I St., S. W.	Illinois.
George B. Dent, 614 6th St., N. W.	North Carolina.
Marion Dorsett, B. S., 1120 New York Ave., N. W.	Pennsylvania.
G. Sanger Driver, 1342 N St., N. W.	District of Columbia.
J. H. Ford, B. S., A. M., 314 2d St., S. E.	District of Columbia.
F. F. Fadely, 2023 N St., N. W.	Virginia.
W. Ashby Frankland, 916 8th St., N. W.	Virginia.
W. N. Fisher, 1212 9th St., N. W.	Virginia.

Name.

Residence.

W. C. Gaynor, 715 9th St., N. W.	Kentucky.
Frank E. Gibson, 927 I St., N. W.	District of Columbia.
Wm. H. Gallinger, LL. M., The Elsmere.	New Hampshire.
R. B. Grubbs, Department of Agriculture.	Alabama.
John Paul Gunion, 927 O St., N. W.	District of Columbia.
Ellis S. Goodall, 1230 14th St., N. W.	Vermont.
Paul B. Graham, 1236 31st St., N. W.	Maryland.
H. H. Graham, 305 H St., N. W.	Ohio.
H. R. Garland, Coast and Geodetic Survey Office.	Virginia.
Robert C. Gotta, 813 1st St., N. W.	Pennsylvania.
W. W. Grier, 1223 K St., N. W.	District of Columbia.
P. S. Gunckell, 231 10th St., N. W.	Kansas.
L. Murray Gotwald, 309 11th St., S. W.	Pennsylvania.
R. H. Hardman, War Department.	Maryland.
Richard A. Hales, 928 N. Y. Ave., N. W.	North Carolina.
J. C. Heath, 708 11th St., N. W.	Maryland.
Charles R. Hughes, 18 N St., N. W.	Tennessee.
Harry K. Hodes, 38 I St., N. W.	New York.
Robert Ernest House, 1920 Sunderland Pl., N. W.	Texas.
Ernest R. Hunting, 433 M St., N. W.	New York.
W. P. Hill, V. S., Rockville, Md.	Maryland.
W. A. Haugaard, 1216 G St., N. W.	Denmark.
Almer M. Hoadley, 219 4½ St., N. W.	New York.
F. M. Hartsock, 1008 K St., N. W.	Maryland.
Paul C. Hutton, 309 1st St., S. E.	North Carolina.
C. Norman Howard, 928 T St., N. W.	Pennsylvania.
N. N. Herbert, 824 D St., S. E.	District of Columbia.
J. K. Halley, D. D. S., 1321 F St., N. W.	Virginia.
P. W. Huntington, 3045 N St., N. W.	Connecticut.
Avediss B. Herald, 1309 F St., N. W.	Armenia.
W. R. B. Holland, 925 8th St., N. W.	District of Columbia.
A. B. Hooe, 915 I St., N. W.	Virginia.
Ralph Jenkins, M. D., 1732 Mass. Ave., N. W.	New York.
Thomas G. Jones, 228 1st St., S. E.	District of Columbia.
Charles J. Johnson, 1014 11th St., N. W.	Delaware.
V. R. Johnson, Ph. Grad., 1460 Corcoran St., N. W.	Virginia.
Charles James, 109 C St., S. E.	District of Columbia.
George F. Juenemann, 310 6th St., N. W.	District of Columbia.
John E. Jones, 1213 O St., N. W.	District of Columbia.
Sothoron Key, 1723 G St., N. W.	Maryland.

Name.	Residence.
John A. Koch, Garfield Hospital.	Illinois.
C. L. Keyser, 2019 Massachusetts Ave., N. W.	District of Columbia.
George C. F. Lindenkohl, 19 4th St., S. E.	District of Columbia.
Hanson T. A. Lemon, 629 G St., S. W.	District of Columbia.
Eugene L. Le Merle, 330 Spruce St., N. W.	District of Columbia.
John St. J. Lockwood, cor. 1st and B Sts., S. W.	District of Columbia.
Wilson A. Lee, 1741 Q St., N. W.	West Virginia.
R. L. Lynch, 2449 P St., N. W.	Indiana.
A. L. Lawrence, 1211 F St., N. W.	Ohio.
Victor A. Lewis, 1634 15th St., N. W.	Maryland.
Henry A. May, 1826 9th St., N. W.	New York.
Jacob Michaelian, 1012 F St., N. W.	Armenia.
Orville J. Mason, 1203 13th St., N. W.	New York.
B. E. Marshall, 1305 R St., N. W.	Virginia.
Walter A. McNeil, 930 K St., N. W.	Tennessee.
Charles S. Muir, 512 3d St., N. W.	District of Columbia.
M. J. McIntee, Treasury Department.	Massachusetts.
W. W. Medley, 405 G St., N. W.	Virginia.
Samuel J. McMichael, 926 P St., N. W.	South Carolina.
William P. McKee, 809 22d St., N. W.	District of Columbia.
S. M. Mason, 1706 F St., N. W.	Virginia.
W. E. Musgrave, Washington Barracks.	Tennessee.
R. B. Main, 2009 Massachusetts Ave., N. W.	District of Columbia.
P. E. McDonnald, 913 I St., N. W.	Georgia.
R. Lawton Morgan, 1912 Sunderland Place.	Pennsylvania.
James S. McIlhenny, Hotel Oxford.	District of Columbia.
R. A. W. McKeldon, 1242 Maryland Ave., N. E.	District of Columbia.
Charles McCulloch, D. V. S., 2650 14th St., N. W.	Virginia.
W. W. Matthews, 1414 H St., N. W.	Louisiana.
William P. Mills, A. B., 1132 10th St., N. W.	Maryland.
Robert J. McAdory, 1520 S St., N. W.	Alabama.
F. H. Morhart, 228 Morgan St., N. W.	Ohio.
H. Norman North, St. Elizabeth Asylum, D. C.	District of Columbia.
John I. Nimmo, 1212 H St., N. E.	Georgia.
W. D. Naramore, Alexandria, Va.	Virginia.
W. J. Olds, 1413 N St., N. W.	Michigan.
Edwin W. Patterson, The Raleigh.	Ohio.
Almer Alonzo Protzman, 1507 28th St., N. W.	West Virginia.
H. F. Porter, 3045 O St., N. W.	New York.
Herbert T. Penny, M. D., 1520 12th St., N. W.	Montana.

Name.	Residence.
D. W. Prentiss, Jr., 1322 Yale St., N. W.	District of Columbia.
Joseph Perkins, 1214 New York Ave., N. W.	Illinois.
Rolla D. Pope, B. S., 603 I St., N. W.	Illinois.
Woodbury Pulsifer, 1417 R St., N. W.	Maine.
C. O. Perry, 1908 G St., N. W.	Illinois.
A. Pearson, B. S., Department of Agriculture.	Pennsylvania.
Eugene C. Rice, 603 3d St., N. W.	Massachusetts.
P. C. Riley, 1015 14th St., N. W.	Maryland.
Luther H. Reichelderfer, 1295 Q St., N. W.	Ohio.
C. A. Ragan, 246 8th St., N. E.	Tennessee.
Will. H. Reeves, 227 North Capitol St.	Tennessee.
A. A. Rittenour, 815 King St., Alex., Va.	Virginia.
Wright Rives, Box 194, Washington, D. C.	Maryland.
Walter E. Stoner, 1456 Corcoran St., N. W.	Maryland.
William E. Sullivan, 505 L St., N. W.	Massachusetts.
William T. Smith, 813 Vermont Ave., N. W.	Georgia.
Maynard J. Simmons, 22 2d St., N. W.	Maryland.
Charles J. Sheridan, 435 G St., N. W.	New York.
George A. Schwinn, Ph. Grad., Children's Hospital.	Maryland.
D. F. Slattery, 252 11th St., S. E.	District of Columbia.
Henry H. Seltzer, 445 5th St., N. E.	District of Columbia.
William E. Sims, 1301 F St., N. W.	South Carolina.
George R. Sorrel, 620 F St., S. W.	Virginia.
N. W. Smith, 1413 Q St., N. W.	Pennsylvania.
W. S. Scott, Library of Congress.	Ohio.
H. A. Selhausen, 510 D St., S. E.	District of Columbia.
J. T. Sykes, 730 11th St., N. W.	England.
J. J. Shirley, M. D., 3309 O St., N. W.	Wisconsin.
John A. Taff, 519 New Jersey Ave., N. W.	Pennsylvania.
J. C. Tappan, 507 B St., S. E.	District of Columbia.
Adelbert A. Taylor, 17 Grant Place, N. W.	Ohio.
John M. Tracy, 1016 I St., N. W.	New York.
Arthur L. Wilson, 1741 Q St., N. W.	West Virginia.
Robert M. Weedon, 1210 9th St., N. W.	District of Columbia.
William W. Whitcomb, 720 21st St., N. W.	Kentucky.
D. A. Welles, 2 I St., N. W.	New Hampshire.
Welton C. Williams, 4th and N Sts., N. W.	Virginia.
William K. Ward, 1756 Pennsylvania Ave., N. W.	District of Columbia.
George W. Wimberly, 1412 30th St., N. W.	Georgia.
Edwin P. Wolfe, A. B., 17 Grant Place, N. W.	Iowa.

Name.	Residence.
Thomas A. Whittington, 451 M St., N. W.	Nebraska.
Gaylord Worstell, B. S., 436½ H St., N. W.	Texas.
William E. Whitson, 1527 Meridian Ave., N. W.	Maryland.
Charles S. White, 1105 E St., S. W.	District of Columbia.
S. J. Wyeth, 2022 R St., N. W.	Illinois.
R. E. L. Wiltberger, D. D. S., 1323 G St., N. W.	District of Columbia.
R. F. Yarborough, 1300 Penn. Ave., N. W.	North Carolina.

Total.....* 164

THE DENTAL SCHOOL.

The Faculty.

THE REV. BENAIAH L. WHITMAN, D. D.,
President.

J. HALL LEWIS, D. D. S.,
Professor of Dental Prosthetics and Dean of the Faculty.

HENRY C. THOMPSON, D. D. S.,
Professor of Operative Dentistry and President of the Faculty.

D. WEBSTER PRENTISS, M. D.,
Professor of Materia Medica and Therapeutics.

D. KERFOOT SHUTE, M. D.,
Professor of Anatomy.

EMIL A. DE SCHWEINITZ, M. D.,
Professor of Chemistry.

WILLIAM P. CARR, M. D.,
Professor of Physiology.

JONATHAN R. HAGAN, D. D. S.,
Professor of Oral Surgery.

STERLING RUFFIN, M. D.,
Demonstrator of Anatomy.

VERANUS A. MOORE, M. D.,
Professor of Normal Histology.

JONATHAN R. HAGAN, D. D. S.,
Demonstrator in Charge of Infirmary.

(179)

WILLIAM L. CLARK, D. D. S.,
WALTER A. LOW, D. D. S.,
CHARLES R. RICE, D. D. S.,
WILLIAM H. TRAIL, D. D. S.,
R. E. L. HACKNEY, D. D. S.,
Assistant Demonstrators.

Clinical Operators.

ROBERT B. DONALDSON, D. D. S.
HENRY B. NOBLE, D. D. S.
J. CURTIS SMITHE, D. D. S.
LOUIS C. F. HUGO, D. D. S.
WALTER S. HARBAN, D. D. S.
WILLIAMS DONNALLY, D. D. S.

J. HALL LEWIS, D. D. S., DEAN,
1023 Vermont Avenue N. W. and 1325 H Street N. W., Washington, D. C.

EMIL A. DE SCHWEINITZ, M. D.,
Secretary-Treasurer, 1325 H Street N. W.

DENTAL DEPARTMENT.

Annual Announcement of the Session of 1896-'97.

The Regular Course of Lectures begins on Thursday, October 1, 1896, and continues seven months.

The Introductory Lecture of the Course will be delivered by Dr. J. Hall Lewis, on the 1st of October, and the regular Lectures will continue throughout the session, beginning at 5.30 p. m. of each week day.

The Faculty of the Dental Department of this University announce that in order to become eligible for graduation the student must attend three full courses of seven months each, held in different years, with such exceptions as are hereinafter stated.

The subjects of the several courses are arranged as follows:

FIRST YEAR.—Anatomy, Physiology, Chemistry and Materia Medica,

together with Practical Anatomy, Histology, Bacteriology, and such Infirmary work as is suitable for first-year students.

SECOND YEAR.—The subjects of the first year are continued, and to these are added Operative Dentistry and Prosthetic Dentistry, with more advanced Infirmary work.

THIRD YEAR.—This year is devoted *exclusively* to Operative and Prosthetic Dentistry. An examination is held at the end of each year on all subjects taught during that year.

As, however, no amount of scientific attainment can compensate for lack of manipulative skill, a large part of the student's time is devoted to actual practice in the Infirmary, for which purpose the large and centrally located College building gives ample opportunities.

The operating room fronts on one of the Government reservations, and thus has a full, unobstructed light, so desirable in dental operations. It is furnished with all necessary appliances that will enable a student to acquire the knowledge of office practice, as well as a diversity of clinical experience.

A large, comfortable, and well-lighted Dental Laboratory is supplied with all the requirements for the successful practice of Prosthetic Dentistry, and lockers are available for the safe-keeping of instruments belonging to the students.

The extracting room is separate from the others, and is fitted up for the proper administration of the various anaesthetics, under the immediate supervision of a demonstrator thoroughly skilled in their application.

Special attention is called to the thoroughness of the practical instruction in the Infirmary, which is under the immediate supervision of Professor LEWIS. Dr. HAGAN, the Demonstrator in charge, is in constant attendance during the entire term, directing and overseeing the operations of the students, who thus have the benefit of his many years of experience in Dental Practice.

The Infirmary is open every week day for nine continuous months (being closed during the months of July, August, and September), during which time an abundance of clinical material is readily available. In fact, fully as many patients present themselves as can possibly be attended to by the students.

The student has, therefore, the privilege of *twenty-seven months' actual practice* in the Infirmary, during which time he may become proficient in

all those operations which the dental surgeon is ordinarily called upon to perform in office practice.

During the past term the Infirmary has been altered and refitted and the number of chairs more than doubled. It is very complete in all its appointments. An experimental laboratory course in Metallurgy, Bridge Work, etc., has been established under the careful supervision of Dr. RICE.

GENERAL SKETCH OF THE SEVERAL LECTURE COURSES.

Prosthetic Dentistry and Metallurgy.

PROFESSOR LEWIS.

In this Department the principles involved in the construction of artificial substitutes will be exhaustively considered, and the lectures supplemented by practical demonstrations of the subjects mentioned.

In addition to the more commonly used vegetable bases for artificial teeth, the use of Gold, Silver, and Platinum will be thoroughly taught, and Bridge Work, the construction of appliances for correcting Oral Irregularities, etc., will be carefully considered.

The modes of preparation, properties, etc., of the Metals and Alloys of particular interest to the Dentist will receive special attention.

Professor LEWIS will endeavor to make his instruction thoroughly practical, and to prepare the student for the actual every-day practice of Prosthetic Dentistry.

Operative Dentistry, Dental Anatomy, and Pathology.

PROFESSOR THOMPSON.

This course embraces Lectures on the Special Anatomy and Physiology of the Teeth. The origin, growth, and eruption of the teeth receive minute attention, and will be illustrated as their importance demands.

The methods of treating, filling, and extracting teeth will not only receive attention in the lecture-room, but be demonstrated clinically by gentlemen whose reputations are fully established as most proficient operators. Dental Pathology and Therapeutics will receive extended consideration from this Chair.

Chemistry.

PROFESSOR DE SCHWEINITZ.

The instruction in this Department embraces—

A short discussion of the principles of Physics in their relation to Chemistry, the principles of Chemical Philosophy, and the laws of Chemical Combination.

A study of the elements, metallic and non-metallic; the preparation, properties, and reaction of their different compounds and their application in Dentistry.

Organic Chemistry will be studied, special attention being paid to those organic compounds that are of practical use.

Laboratory instruction will be given in the determination of acids and bases, analyses of alloys, etc.

Physiology.

PROFESSOR CARR.

Every effort will be made to teach this subject in a scientific manner. The ground will be fully covered by a two years' course of Lectures, and these Lectures so illustrated by modern diagrams, models, and experiments as to make them perfectly clear in every detail.

Especial pains will be taken to emphasize those truths that have a known practical value.

Materia Medica and Therapeutics.

PROFESSOR PRENTISS.

In the course of instruction pertaining to this Chair especial prominence will be given to the physiological action of medicines and their therapeutic uses.

It will be the endeavor of Professor PRENTISS to make his instruction as practical as possible. The Lectures will be supplemented by working prescriptions and blackboard illustrations, as occasion will admit.

From this Chair the student will be taught the use of the Metric System in Medicine.

A Pharmaceutical Laboratory is established in connection with this Chair, in which the students are taught the methods of making the different preparations, such as infusions, decoctions, tinctures, syrups, and the like.

They are also taught the compounding of prescriptions, the proper excipients for pills, incompatibles (especially such as produce dangerous compounds), and are expected to actually compound working formulæ.

Anatomy.

PROFESSOR SHUTE.

This course of Lectures is arranged with the view of rendering the didactic instruction in Anatomy as full and complete as the limits of the session will allow.

The lectures will be illustrated by frequent reference to recent dissections and numerous drawings and diagrams. The sciopticon will also be employed constantly to present photographic views of many regions of the body.

Public oral examinations are conducted by the Lecturer from time to time.

The Prosectors to the Chair of Anatomy will prepare the subject for the Lecturer.

The Demonstrator of Anatomy and his Assistants give their personal attention to the students in the dissecting-room.

Practical Anatomy.

The dissecting-room of this College is large, thoroughly ventilated, well lighted, and furnished with every requisite for the convenience and comfort of the student. Anatomical material is abundantly supplied free of charge to the student. The room is open both during the day and at night until 11 p. m., or even later on some occasions. It is under the supervision of the Faculty and the immediate direction of the Demonstrator of Anatomy, who, with his assistants, is present *at stated hours* to give his personal attention to the students and properly instruct his classes in their dissections.

Oral Surgery.

PROFESSOR HAGAN.

A full course of Lectures upon the above subject will be given by Professor HAGAN, and arrangements have been made for Clinical Demonstrations in the Infirmary, in order to more thoroughly teach this interesting branch of General Dentistry.

Histology.

The Histological Course embraces a thorough study of the general use of the microscope and a special examination of the origin and formation of the teeth, the minute parts of these organs, and the surrounding tissues.

Bacteriology.

This course will embrace a comprehensive study of the bacteria of the mouth, which have relation to the diseases of that region.

Clinical Operations.

One evening in each week a member of the Corps of Clinical Operators will lecture upon some subject of general interest in Dentistry, and upon the following Saturday, whenever admissible, will give in the Infirmary a practical demonstration of the subject mentioned.

Special attention is called to the fact that the members of the Clinical Corps take an *active* part in the College instruction, each member giving several lectures on special subjects during the Winter Course, besides holding clinics at the Infirmary.

Requirements for Matriculation and Graduation.

Matriculants will be required to show, either by examination or by the exhibit of a diploma or certificate from some reputable institution of learning, that they have received a good English education.

Dr. O. A. M. McKIMMIE, of the Columbian University, will conduct the entrance examination, when such is required, at 1333 N street N. W.

Candidates for Graduation must have attended three full Courses of Lectures, each of SEVEN months' duration, and three courses of Clinical instruction in this institution, during the regular winter term and in separate years, with the exceptions noted below.

The following is considered as an equivalent to one course in this College:

A diploma from a recognized medical school, undergraduate tickets of the same, or satisfactory evidence of having passed first-year examination in some other reputable dental school.

The following is considered as the equivalent of two courses in this College:

A diploma from a reputable dental college or evidence of having passed the second-year examination in the same.

Before becoming eligible for graduation, all medical graduates and students must take two full courses upon Operative and Prosthetic Dentistry, and conform to the usual Infirmary requirements.

Graduates from schools of pharmacy may enter the Junior Class after passing a satisfactory examination in the first-year studies.

Students are examined at the end of the regular course upon all subjects taught them during that course.

Should the student fail in his examination in the spring, he may be re-examined in the fall.

Students can go up for examination only in the spring and fall and upon the dates regularly selected for that purpose.

All fees must be paid and Infirmary requirements complied with before the student can present himself for examination.

Students must enter before or during the month of October for the regular Winter Course. They may register at any time during the nine months' Infirmary Course, and thus begin Infirmary practice at once upon payment of \$25, which amount will be deducted from their tuition fees for the succeeding regular term.

The candidate must be examined upon all subjects taught in this School, with exceptions noted above, and before the examination he must *perform operations upon the natural organs in the Infirmary*, and present a well-constructed specimen of Dental mechanism *made by himself in the Dental Laboratory of the University*, which shall afterward be deposited in the College Museum.

In addition to the above requirements, the moral character and habits of the candidate, his industry and diligent attendance, will be taken into consideration. Notable negligence, immorality, and habitual absence from the lectures will, it is distinctly understood, preclude the candidate from attaining his degree, even though he may have acquired sufficient technical knowledge to pass a creditable examination. The reservation on the part of the Faculty of the right to make good moral character a prerequisite for graduation must not be overlooked.

Faculty Prize.

A prize will be given by the Faculty to the graduate passing the best examination in *all* branches and having the best Infirmary record. At the last commencement the prize was awarded to Walter A. Low, of Virginia.

Fees, etc.

Annual tuition fee..... \$100 00

The above includes all the Tuition expenses. There are no *extras* whatever. The Dissection Material, Chemicals, Instruction in the Histological, Pharmaceutic, and Chemical Laboratories and Dental Infirmary are all furnished free of charge to the students.

Each student must furnish his own Books and Dental Instruments.

The student is required to make a payment upon registering, and twenty-five dollars must be paid before he can avail himself of Laboratory and Infirmary instruction.

All fees should be paid to the Secretary-Treasurer, Dr. DE SCHWEINITZ, at 1325 H street.

Candidates for graduation in the Dental School who desire to obtain a medical degree thereafter may be admitted to the medical examination on the primary branches at the termination of their second Dental Course, provided they give written notice to the Dean of their intention so to do one month before the spring examinations, and provided also that they have complied with the requirements of the Medical School as regards Dissection, the study of Histology, etc.

The degrees are conferred by the authority of the Columbian University, incorporated by act of Congress of the United States.

The prices of board and all other personal expenses are as reasonable in Washington as in other large cities of the Union.

Students requiring further information are requested to communicate with the Dean of the Faculty.

J. HALL LEWIS, DEAN,

1023 Vermont Avenue N. W., Washington, D. C.

The Dean can be seen personally at 1023 Vermont avenue, on any week day, from 3.30 to 4.30 p. m., and also at the College Building, 1325 H street N. W., on Monday, Wednesday, and Friday of each week from October 1 to May 1, between the hours of 6.30 and 8 o'clock p. m.

Libraries, Army Medical Museum, etc.

The location of the University at the seat of the National Capital affords several striking advantages to the dental student. He has free access to the Libraries of Congress, of the Army Medical Museum, of the Smithsonian Institution, and of the Patent Office—all of which contain rare and costly works in every department of science and literature.

The Congressional Library contains copies of all the important dental works ever published, and the student has free access to these, for study or reference, on any week day from 9 to 3 o'clock.

The Army Medical Museum, situated on B street, corner Seventh street, S. W., is also open for daily inspection, with its unrivaled collection of pathological specimens illustrating the result of disease in every form. It also contains almost numberless crania of every human nationality, by an examination of which the student can find many dentures of theoretical perfection, and observe the effect of civilization and race admixture upon the dental organs.

Apart from these considerations, students from a distance have the opportunity of spending the winter profitably at the seat of the National Government during the session of Congress. The College lectures beginning at 5.30 in the evening, ample time is afforded during the term for visiting the public buildings, works of art, and other places of interest to a stranger. Prominent among these may be mentioned the new National Museum, established in connection with the Smithsonian Institution. Here may be seen fully classified collections illustrating the arts and industries of the country, and, of special interest to the medical and dental student, there is found in this Museum the most complete and best arranged collection of *Materia Medica* in the world. The drugs are shown in all their processes of manufacture, from the original package to the delicate alkaloid constituting the active principle.

Of great interest, also, are the Government Botanical Gardens and the Grounds of the Agricultural Department, where the student of Botany may find a rare collection of medical plants, from which are derived many of the preparations of the *Materia Medica*.

At the United States Patent Office models of every conceivable form of dental instruments may be daily inspected, thus affording to the student an invaluable opportunity for studying the mechanical contrivances used in dental practice that is not to be obtained in any other city.

University Lectures.

Students of the Dental School are admitted, without further fee, to the University Lectures. When qualified to profit by them, they can secure admission to such lectures, other than Law Lectures, given in the University Hall, by applying to the Dean.

Students of Dentistry.

William F. Ankeney, 1100 13th St., N. W.,	Maryland.
Samuel E. Aler, 611 M St., N. W.,	West Virginia.
Clarence M. Agnew, 828 12th St., N. W.,	Pennsylvania.
George W. Boynton, 913 1st St., N. W.,	New York.
Edwin H. Boyer, 1507 28th St., N. W.,	Maryland.
Lorenzo J. Broughton, 928 8th St., N. W.,	North Carolina.
Arthur Bennett, 721 8th St., N. W.,	Georgia.
Paris E. Brengle, 450 P St., N. W.,	Maryland.
Vivian P. Berry, 32 Grant Place, N. W.,	Virginia.
Damon A. Binkert, 1016 I St., N. W.,	Illinois.
Richard V. Barry, 124 C St., S. E.,	District of Columbia.
Fenton Bradford, 1209 10th St., N. W.,	Virginia.
Charles J. Berner, 1211 I St., N. W.,	District of Columbia.
Edward F. Concklin, 1118 New Hampshire Ave.,	Rhode Island.
N. W.,	
William Creamer, 814 G St., S. E.,	Maryland,
Emmett M. Carter, 937 Virginia Ave., S. W.,	District of Columbia.
Eppa H. Coumbe, 1312 9th St., N. W.,	Virginia.
Thomas B. Cochran, 111 Alfred St., Alexandria,	Virginia.
James C. Dunne, 10 Grant Place, N. W.,	New York.
James D. Eggleston, M. D., 1403 Park Place,	New Jersey.
Joseph L. Egan, 1244 10th St., N. W.,	Connecticut.
William C. Fisher, 3250 O St., N. W.,	District of Columbia.
Thomas W. Fred, 721 8th St., N. W.,	Virginia.
Jacob A. Gorman, 516 B St., N. E.,	North Carolina.
Hopkins Gibson, 918 9th St., N. W.,	West Virginia.
Oliver P. Gregory, 1216 Maryland Ave., N. E.,	District of Columbia.
George E. Hurley, 923 H St., N. W.,	Massachusetts.
William B. Hamaker,	Pennsylvania.
F. F. Hicks, 609 G St., S. W.,	Maryland.
Wilmer S. Hall, 1735 G St., N. W.,	Alabama.
James G. Haskell, 738 3d St., N. W.,	Kentucky.
Charles B. Keefer, 316 2d St., S. E.,	District of Columbia.
Hubert L. King, 1321 F St., N. W.	District of Columbia.
Henry W. Johnson, 2011 S St., N. W.,	District of Columbia.
Llewellyn Jordan, M. D., 2026 H St., N. W.,	Mississippi.
Harry A. Jelly, 20 Grant Place, N. W.,	Maryland.
Roy E. Leatherman, 1415 2d St., N. W.,	District of Columbia.

Samuel C. Lockett, House of Representatives,	Texas.
John A. Moore,	Indiana.
Harry B. Moore, 1402 W St., N. W.,	District of Columbia.
John P. Moore, 1427 S St., N. W.,	Illinois.
William E. Naff, 20 Grant Place, N. W.,	Tennessee.
John P. Price, 1215 I St., N. W.,	North Carolina.
J. F. Pearson, 1008 I St., N. W.,	District of Columbia.
William A. Rawson, 728 9th St., N. W.,	Michigan.
Frank B. Seigers,	Maryland.
Ernest E. Smith, 1508 W St., N. W.,	Virginia.
Elden C. Shade, 1232 14th St., N. W.,	District of Columbia.
J. Reverdy Stewart,	Virginia.
Pearce Thompson, Pension Office,	Kentucky.
Wines E. Thornton, Treasury Department,	Vermont.
Orville Van Deusen, 1212 9th St., N. W.,	Virginia.
Frank H. Waite, Ph. D., 2d and E Sts., N. W.,	Maryland.
Thomas R. Wheeler, 1013 L St., N. W.,	England.
Howard A. Wiltberger, 237 N. J. Ave., N. W.,	Pennsylvania.
James L. Whiteside, 1917 I St., N. W.,	Maryland.
R. E. L. Wiltberger, 1323 G St., N. W.,	District of Columbia.
J. Edmond Whitson, 1527 Meridian Ave., N. W.,	Maryland.
R. Washington, M. D., 828 12th St., N. W.,	District of Columbia.
H. E. Waggaman, 1627 19th St., N. W.,	District of Columbia.
Harry M. Weber, 727 7th St., S. E.,	District of Columbia.
Elmer F. Yount, 609 G St., S. W.,	District of Columbia.
James R. Yates, 1300 Pa. Ave., N. W.,	Virginia.

Students in dentistry..... 63

UNIVERSITY LECTURES.

University Committee on Lectures.

Professor J. H. GORE, <i>Chairman.</i>	Professor J. MACB. STERRETT.
Professor F. H. BIGELOW.	Professor WILLIAM P. CARR.
Professor L. D. LODGE.	Professor H. C. THOMPSON.
Professor J. M. HARLAN.	Mr. CHAPIN BROWN.

The Treasurer of the University.

The lectures given in University Hall, other than those given to the students in law, are open to all students in the University and to the public. During the session of 1895-'96 the following lectures have been delivered:

PEOPLES AND INSTITUTIONS.

The Honorable Gardiner G. Hubbard.—Japan (Illustrated).
Professor J. H. Gore.—Holland's War with the Sea (Illustrated).
Professor Edward Farquhar.—The Unification of Italy.
Professor Hermann Schoenfeld.—Poland at the Time of its Dis-
memberment.

DEVELOPMENT IN LIFE, SOCIETY, AND ART.

Professor D. K. Shute.—1, Organic Cells: the Visible Units of Life ;
2, Heredity with Variations ; 3, Organic Evolution.
Professor Lester F. Ward.—1, Society in its Genesis ; 2, The Dynamics
of Society.
Professor Lee Davis Lodge.—Civilization : Organic History.
Professor William Ordway Partridge.—The Upgrowth of Art.
President B. L. Whitman.—Civilization Mirrored in Literature.

PRACTICAL LESSONS OF HISTORY.

Doctor W. T. Harris.—1, Savage Tribes, China, India, and Buddhism ;
2, Persia, Egypt, Syria, and Judea ; 3, Greece ; 4, Rome ; 5, The Cru-
sades and the Struggle of Christianity against Pantheism ; 6, The Age of
Revolution and of Local Self-Government.

ART UNDER THE AUSPICES OF THE COLUMBIAN COLLEGE.

Professor William Ordway Partridge.—1, Life and Art ; 2, History of
Sculpture ; 3, Greek and Roman Art ; 4, Spiritual Element in Art ; 5, Na-
tional Art ; 6, Art and Religion ; 7, Memorial Art.

DEGREES CONFERRED IN 1895.

HONORARY.

Doctors of Laws.

Name.	Residence.
Oliver Wolcott Gibbs, President National Academy of Science. A. M., Columbia College, N. Y., 1841. M. D., College of Physicians and Surgeons, N. Y., 1845. LL. D., Columbia College, N. Y., 1873.	Rhode Island.
Samuel Harrison Greene, A. B., 1873; A. M., 1875; D. D., 1892, Col- gate University. D. D., 1882, Norwich University. D. D., 1892, Rochester University.	District of Columbia.

Doctors of Divinity.

Alfred Bagby, A. B., Columbian College, 1847.	Virginia.
Joseph Johnson Muir,	District of Columbia.

DEGREES CONFERRED IN COURSE.

Doctor of Philosophy.

George Wesley Hamner, A. B., 1882; A. M., 1885, Hiawasse College. LL. B., University of Alabama, 1885. LL. M., Georgetown University, 1886.	Alabama.
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Masters of Science.

George Estes Barton, B. S., Worcester Polytechnic Institute, 1891.	Massachusetts.
Fredrich Ludwig Johannes Boettcher, B. S., Columbian University, 1894.	Virginia.
William Asbury Case, B. Sc., St. John's College, 1894.	Maryland.
George Vose Chandler, B. S., Columbian University, 1893.	Pennsylvania.
Louise Connolly, B. S., Columbian University, 1888.	District of Columbia.
Elmer Selah Farwell, C. E., Rensselaer Polytechnic Institute, 1874.	Illinois.
Revere Randolph Gurley, M. D., Columbian University, 1884.	Virginia.

Name.	Residence.
Horace Mann, B. S., Columbian University, 1893.	Iowa.
George Baden Pfeiffer, B. Sc., Virginia Agricultural and Mechanical College, 1886.	Maryland.
Cabell Whitehead, B. M., Lehigh University, 1885.	Idaho.

Masters of Arts.

Jonas Emil Blomén, Ph. D., University of Upsala, 1884.	New York.
Joseph Herbert Ford, B. S., Columbian University, 1893.	District of Columbia.
Edmund Payne Halley, Jr., A. B., Kentucky University, 1891.	Kentucky.
Mary McPherson, A. B., Wellesley College, 1893.	District of Columbia.
Edwin Barnes Niver, A. B., Brown University, 1893.	Maryland.
B. D., Episcopal Theological School, Cam- bridge, 1892.	
Marathon Montrose Ramsey, B. S., Columbian University, 1894.	West Virginia.
John Merriam Reynolds, B. E., 1867; M. E., 1869, Pennsylvania State Normal School.	Pennsylvania.

Doctors of Medicine.

Fanny C. Brewer,	Maryland.
De Witt C. Chadwick,	Ohio.
Henry K. Craig,	Maine.
George W. Currier,	Maine.
John Dale,	Pennsylvania.
Henry M. Dixon,	Mississippi.
W. H. Dobson,	Pennsylvania.
Warren Dexter Fales,	Illinois.
Alfred G. Grunwell,	District of Columbia.
Bernard S. Hardin,	Virginia.
Ralph A. Harding,	District of Columbia.
J. R. Johnson,	Virginia.
Joseph F. James,	Ohio.

Name.	Residence.
W. A. Kinnan,	Michigan.
U. S. G. Keller,	Pennsylvania.
Frank A. Kirby,	Massachusetts,
Kate E. Lozier,	Connecticut.
L. Fleet Lockett,	Maryland.
G. N. McLoughlin,	Tennessee.
Wm. L. Masterson,	Ohio.
F. P. Magennis,	Pennsylvania.
Frank A. Mazzie,	District of Columbia.
Homer S. Medford,	District of Columbia.
William S. Newell,	Indiana.
George T. Prewitt,	Texas.
Tunis C. Quick,	Virginia.
David E. Quinn,	Ohio.
Arthur C. Rauterberg,	District of Columbia.
V. B. Rench,	District of Columbia.
Edward E. Richardson,	Vermont.
Milo H. Sutliff,	Ohio.
Percy G. Smith,	Maryland.
Homer L. Spaulding,	Kansas.
John Hamilton Stone,	District of Columbia.
James R. Tubman,	District of Columbia.
William A. Tyler,	Kansas.
William O. Wetmore,	New York.

Doctors of Dental Surgery.

Ferdinando Aguilera,	U. S. of Colombia.
Joseph Cohen,	Texas.
James White Davis,	Maine.
William Sherman Gustin,	Ohio.
William Hislop,	Ontario.
Robert E. L. Hackney,	California.
Joseph Everett Keene,	District of Columbia.
Henry Knowles,	Georgia.
Eugene Lyman Le Merle,	District of Columbia.
Charles Wesley Orr,	New York.
William K. Petty,	Virginia.
Harry Parson,	New York.
William Henry Trail,	Maryland.
Ernest Varela,	California.
Israel G. Warfield,	Maryland.

Masters of Law.

Name.	Residence.
Frederick Achenbach, LL. B., Columbian University, 1894.	Missouri.
Edgar Allan, Jr., LL. B., Columbian University, 1894.	Virginia.
Edwin Sanford Bethel, LL. B., Columbian University, 1894.	Illinois.
W. R. Blackford, LL. B., Columbian University, 1894.	District of Columbia.
Samuel Hazen Bond, LL. B., Columbian University, 1894.	District of Columbia.
Joseph Aloysius Burkart, LL. B., Columbian University, 1894.	District of Columbia.
Frederick Dennett, LL. B., Columbian University, 1894.	North Dakota.
Frederic S. Doyle, LL. B., Columbian University, 1894.	Pennsylvania.
J. Q. Eaton, A. B., Dartmouth College, 1893. LL. B., Columbian University, 1894.	District of Columbia.
Selden Marvin Ely, LL. B., Columbian University, 1894.	Virginia.
Alf. M. Fuller, LL. B., Columbian University, 1894.	West Virginia.
Orlando W. Goodwin, LL. B., Columbian University, 1895.	Wisconsin.
James McIlvaine Gray, LL. B., Columbian University, 1894.	Nebraska.
A. H. Hiller, Ph. B., Hillsdale College, Michigan, 1889. Ph. M., Hillsdale College, Michigan, 1893. LL. B., Columbian University, 1894.	Michigan.
Frank H. Hitchcock, A. B., Harvard, 1891. LL. B., Columbian University, 1894.	Massachusetts.
Guy Hamilton Johnson, LL. B., Columbian University, 1894.	District of Columbia.
Frank Kyselka, LL. B., Columbian University, 1894.	Michigan.

Name.	Residence.
John Wesley Langley, LL. B., Georgetown University. LL. M., National University.	Kentucky.
Harris Lindsley, LL. B., Columbian University, 1894.	District of Columbia.
William C. Mayo, LL. B., Columbian University, 1894.	Virginia.
E. Elmer Mitchell, LL. B., National University, 1893. LL. M., National University, 1894.	Iowa.
W. B. Mixon, LL. B., Columbian University, 1895.	Mississippi.
Gales P. Moore, LL. B., Columbian University, 1894.	District of Columbia.
E. H. Parry, LL. B., Columbian University, 1894.	District of Columbia.
Seth V. Peck, LL. B., Columbian University, 1894.	Iowa.
U. G. Perry, LL. B., Columbian University, 1894.	Pennsylvania.
William A. Pless, LL. B., Columbian University, 1893.	Tennessee.
Will Pickett Robinson, LL. B., Columbian University, 1895.	West Virginia.
Albert Morris Sames, LL. B., University of Wisconsin.	Illinois,
Harold N. Saxton, LL. B., Columbian University, 1894.	New York.
H. C. Sheridan, LL. B., Columbian University, 1894.	Louisiana.
Albert D. Spangler, LL. B., Columbian University, 1894.	Pennsylvania.
Luther F. Speer, LL. B., Columbian University, 1894.	Pennsylvania.
Harry Clay Surguy, LL. B., Columbian University, 1894.	Ohio.
Seth Elliott Tracy, LL. B., Columbian University, 1894.	Texas.
Harry John Van Der Beek, LL. B., Columbian University, 1894.	New York.

Name.	Residence.
Walter Winter Warwick, LL. B., Cincinnati Law College, 1890.	Ohio.
John Chalmers Wilson, LL. B., Columbian University, 1894.	Maryland.

Bachelors of Law.

Robert Felder Able,	South Carolina.
William J. Acker,	District of Columbia.
Brainard Avery,	Vermont.
Morris Bien,	California.
B. S., University of California, 1879.	
Cornelius Canfield Billings,	Vermont.
Andrew Young Bradley,	District of Columbia.
Charles A. Brown,	Ohio.
Daniel J. Carr,	Connecticut.
John Barber Clark, Jr.,	District of Columbia.
Alan Ogilvie Clephane,	District of Columbia.
John MacLean Coit,	South Carolina.
B. S., University of South Carolina.	
Walter T. Colquitt,	Georgia.
Arthur F. Cosby,	District of Columbia.
A. B., Harvard, 1894.	
Jesse Padon Crawford,	Kentucky.
J. A. E. Criswell,	New York.
Alfred Newton Dalrymple,	District of Columbia.
William R. Davis,	New York.
John E. Dawson,	Massachusetts.
Hampton Y. Denman, Jr.,	District of Columbia.
William B. Depue,	Michigan.
Harry Carroll Evans,	Iowa.
John R. Fellows, Jr.,	New York.
George C. Fraser,	District of Columbia.
Stephen W. Gambrill,	Maryland.
Don Eugenio Gana,	Chile.
Ph. B., University of Chile, 1893.	
Daniel Edward Garges,	District of Columbia.
H. Prescott Gatley,	District of Columbia.
Frank Ferdinand Gentsch,	Ohio.
John C. Goodfellow,	District of Columbia.
Orlando W. Goodwin,	Wisconsin.

Name.	Residence.
Harvey B. Gram,	Ohio.
George C. Hazelton, Jr.,	District of Columbia.
John H. Hazelton,	District of Columbia.
A. B., Johns Hopkins University, 1893.	
Julius V. Hoeffler,	Ohio.
Arthur Merrill Hood,	Indiana.
B. S., Rose Polytechnic Institute, 1893.	
Herman R. Howenstein,	District of Columbia.
Earle A. Humphrey,	North Carolina.
A. Roland Johnson,	District of Columbia.
Eugene A. Jones,	District of Columbia.
Lee Mason Jordan,	Georgia.
Carter Brewster Keene,	Maine.
Harry G. Kimball,	District of Columbia.
B. S., Amherst College, 1893.	
Arthur Frank Kinnan,	Texas.
A. B., Michigan State College.	
Rufus Herman Lane,	Ohio.
Graduate U. S. Naval Academy, 1891.	
A. W. McGregor,	Texas.
Christopher K. Macey,	New York.
E. B. Markham,	District of Columbia.
C. Carroll Martin,	District of Columbia.
Charles A. L. Massie,	Georgia.
A. M., University of Tennessee.	
Edgar H. May,	District of Columbia.
George A. H. Mills,	New York.
William Barrett Mixon,	Mississippi.
George M. Moore,	Missouri.
Joel Nelson Morris,	District of Columbia.
Edwin Alonza Niess,	Pennsylvania.
Francis Nye,	District of Columbia.
A. J. Pearson, Jr.,	Ohio.
Grahame Hume Powell,	New York.
Jesse Weems Rawlings,	District of Columbia.
Will Pickett Robinson,	West Virginia.
Albert Thorpe Ryan,	Idaho.
Adolphe Monell Sayre,	New York.
Emil Charles Schneider,	Illinois.
John C. Scofield,	Georgia.
A. B., 1880; A. M., 1884, Middlebury College.	

Name.

Residence.

Charles F. Sensner,	Virginia.
Elmer David Sherburne,	New Hampshire.
A. B., Dartmouth College, 1890.	
John Bottrell Sleman, Jr.,	District of Columbia.
Addison T. Smith,	Ohio.
F. M. Smith,	West Virginia.
Robert A. Stickney,	Florida.
Frederick George Stutz,	District of Columbia.
William Leonard Symons,	Ohio.
Morven Thompson,	District of Columbia.
Harry Stanley Tullis,	Montana.
Richard K. Tyler,	District of Columbia.
B. S., Dartmouth College, 1890.	
Guy Underwood,	Ohio.
John G. Urquhart,	Virginia.
Harry Weston Van Dyke,	New York.
Horace Greeley Van Everen,	New York.
M. E., Cornell University, 1891.	
George Alfred Warren,	Illinois.
William Warren Werntz,	Massachusetts.
Horace Hampton Westcott,	Pennsylvania.
Edgar Whitfield Williams,	New York.
David Edgar Wilson,	District of Columbia.
A. B., Western Maryland College, 1893.	
Harvey Townsend Winfield,	District of Columbia.

Bachelor of Arts.

George Roscoe Davis, Maine.

Bachelors of Science.

Clara Alma Crew,	Ohio.
Agnes M. Graham,	Pennsylvania.
Addie Estelle Maguire,	District of Columbia.
Cecil Le Roy Parker,	New York.
Daniel Webster Prentiss, Jr.,	District of Columbia.
Spencer Baird Prentiss,	District of Columbia.
Henry Ward Turner,	California.

Civil Engineer.

Perly Egbert Stevens, District of Columbia.

Total 206

Recapitulation.

Students in the College.....	98
Students of Medicine.....	164
Students of Dentistry.....	63
Students of Law.....	372
Students in the Scientific School ..	217
Students in the Graduate School.....	40
Students in the Summer School.....	27
Students in the Academy.....	55
Total.....	1,036

Geographical Distribution of University Students.

Alabama.....	4	Massachusetts....	25	Tennessee.....	20
Arkansas.....	5	Michigan.....	7	Texas.....	18
California.....	8	Minnesota.....	8	Vermont.....	6
Colorado.....	1	Mississippi.....	10	Virginia.....	86
Connecticut.....	8	Missouri.....	16	Washington.....	5
Delaware.....	4	Montana.....	2	West Virginia....	18
Dist. of Columbia.	344	Nebraska.....	2	Wisconsin.....	17
Florida.....	3	Nevada.....	3		
Georgia.....	16	New Hampshire..	9		
Idaho.....	3	New Jersey.....	10	Armenia.....	2
Illinois.....	31	New York.....	68	Chile.....	2
Indiana.....	12	North Carolina..	20	Denmark.....	1
Iowa.....	16	Ohio.....	42	England.....	3
Kansas.....	11	Oregon.....	3	Germany.....	2
Kentucky.....	16	Pennsylvania....	50	Japan.....	1
Louisiana.....	7	Rhode Island....	4		
Maine.....	8	South Carolina..	11	Total.....	1,036
Maryland.....	67	South Dakota....	1		

THE COLUMBIAN UNIVERSITY.

THE
COLUMBIAN ACADEMY,

WASHINGTON, D. C.,

1895-'96.

FROM THE UNIVERSITY PRESS.

JUDD & DETWEILER,
PRINTERS TO THE UNIVERSITY AND TO THE SCIENTIFIC SOCIETIES
OF WASHINGTON.
1896.

532925

THE COLUMBIAN UNIVERSITY

WASHINGTON, D. C.

THE COLUMBIAN ACADEMY

WASHINGTON, D. C.

FROM THE UNIVERSITY OF THE DISTRICT OF COLUMBIA

WASHINGTON, D. C.

THE COLUMBIAN ACADEMY.

THE REV. BENAIAH L. WHITMAN, D. D., PRESIDENT.

Instructors.

WILLIAM ALLEN WILBUR, A. M., DEAN,
Latin and English Literature.

HOWARD L. HODGKINS, PH. D.,
Physics.

H. GRANT HODGKINS, A. B.,
Mathematics.

HENRY ROGERS PYNE, A. M.,
Greek and Latin.

GEORGE NEELY HENNING, A. B.,
French, German, and History.

PAUL A. STEELE,
Commercial Law, Book-keeping, and Penmanship.

CHARLES TILDEN SEMPERS, A. M.,
English.

_____,*
Natural Science.

* To be appointed.

SCHEDULE OF STUDIES.

	PREPARATORY YEAR.	FIRST YEAR.	SECOND YEAR.	THIRD YEAR.	FOURTH YEAR.
ENGLISH.	GRAMMAR (Maxwell's), COMPOSITIONS, SUPPLEMENTARY READING. 4.*	GRAMMAR (Maxwell's), SUPPLEMENTARY READING, AND LITERATURE STUDIES. 3.	AMERICAN LITERATURE STUDIES, SUPPLEMENTARY READING. 2.	RHETORIC, SUPPLEMENTARY READING. 3.	ENGLISH LITERATURE STUDIES. 3. COLLEGE REQUIREMENTS IN LITERATURE. 2.
MATHEMATICS.	ARITHMETIC (Hobbs's). 5.	ARITHMETIC (2 Terms), ALGEBRA (1 Term). 5.	ALGEBRA (Wells's). 5.	GEOMETRY (Wells's). 4.	MATHEMATICS REVIEWED. 4.
LATIN.	LATIN LESSONS (2d and 3d Terms). 2.	LATIN LESSONS (2 Terms), NEPOS (1 Term). 5.	CÆSAR, GRAMMAR, AND COMPOSITION THROUGHOUT COURSE. 5.	VERGIL. 5.	CICERO. 5.
GREEK.			GREEK LESSONS (White). 5.	XENOPHON, GRAMMAR, AND COMPOSITION THROUGHOUT COURSE. 5.	HOMER AND GREEK HISTORIANS. 4.
FRENCH AND GERMAN.				FRENCH OR GERMAN. 3.	FRENCH OR GERMAN. 3.
HISTORY.	AMERICAN HISTORY (Montgomery). 4.	GREEK HISTORY (Ped- dell's), READINGS IN ENGLISH HISTORY. 3.	ROMAN HISTORY (Al- led's), READINGS IN ENGLISH HISTORY. 3.	MEDIEVAL HISTORY, SUPPLEMENTARY READING (Epoch Series). 2.	GREEK AND ROMAN HISTORY (Intensive Study). 2.
NATURAL SCIENCE.	GEOGRAPHY. 3.	PHYSICAL GEOGRAPHY. 3.		CHEMISTRY. 4.	PHYSICS. 4.
VARIOUS STUDIES.	SPELLING, READING, PENMANSHIP THROUGHOUT COURSE.		CIVIL GOVERNMENT AND AMERICAN HISTORY STUDIES. 2.	BOOK-KEEPING AND COMMERCIAL ARITHMETIC (2 Terms), COMMERCIAL LAW AND BUSINESS FORMS (1 Term). 3.	PSYCHOLOGY, PRACTICAL ETHICS. 3.

*Number of recitation periods a week.

THE ACADEMY.

The Academy is a corporate part of the Columbian University. It offers three courses of study: The first of these is especially designed to meet the requirements of the colleges; the second to meet the requirements of the scientific schools; the third to give a good general education of disciplinary and practical value to those who do not enter higher institutions.

CLASSICAL COURSE.

English	4 years.
Mathematics	4 "
Latin	4 "
Greek	3 "
History	3 "
French or German	1 year.

SCIENTIFIC COURSE.

English	4 years.
Mathematics	4 "
Latin	4 "
History	3 "
French or German	2 "
Natural Science	3 "

GENERAL COURSE.

English	4 years.
Mathematics	4 "
Latin	2 "
History	4 "
French or German	2 "
Natural Science	3 "
Commercial Law and Business Courses or Psychology and Ethics	1 year.

I.

The Classical Course.

This course of study is designed to furnish adequate preparation for any college. These are studies that are fundamental to a liberal education. Latin, Greek, Mathematics, and English are the bases of sound learning. They are the means of gaining knowledge and are a necessary part of the preparation of all who contemplate the more extended courses of study.

Progressive development is sought. In the languages emphasis is laid upon thorough knowledge of forms and usages, and composition is required from the first. The value of syntax and composition as disciplinary study can hardly be overestimated. Clear thought, close analysis, accurate expression, are everywhere insisted upon. In the higher classes the elements and qualities of style are studied and independent thought is encouraged.

II.

The Scientific Course.

This course prepares for the scientific and technical schools. It is based on Latin, Mathematics, English, and Natural Science. In place of Greek there are offered more extended courses in History and Modern Languages.

Considerable latitude is permissible in the arrangement of the studies of this course to meet the demands of varying requirements and the wants of special students. Students entering upon this course may be fitted for the Naval Academy at Annapolis or the West Point Military Academy in three years. Mathematics, which is fundamental to the study of all natural science, is supplemented by such studies in science that the whole course is admirably adapted to those who are to be engaged in scientific research and activity.

III.

The General Course.

This course is primarily for those who do not enter higher institutions. It offers four years of English, Mathematics, and History; three of Natural Science; two of Latin; two of French or German, and one of Business studies or Philosophical studies.

It is an Academic course, giving the mind thorough disciplinary training and contributing to its furnishings in many departments of knowledge. Attention is asked to the requirement of two years study of Latin. Latin is fundamental to the study of human civilization, and it affords a discipline and culture of mind in observation, reasoning, and expression that make it indispensable. A full year's work in purely business studies is offered. Commercial Arithmetic, Book-keeping, Commercial Law, and Business Forms constitute a desirable course for special students, and they enable those who wish to graduate to have the benefit of business training.

Very many of the boys of our city are compelled to forego a college education and to prepare themselves to enter at once, on leaving the Academy, some of the many avenues of self-support. This fact has been carefully considered, and this course is so arranged as to assist those who take it to make the best use of the time at their disposal.

The Preparatory Year.

The course of study includes a year of preparatory work which offers to younger pupils not prepared for the regular academic work a uniform preparation, and insures also a high standard of requirement throughout the course. The worth of this is commended to those who are intending at a later time to enter their sons for the regular course at the Academy. The personal supervision of younger boys and their special preparation for the regular course of study is a feature in the policy of the School which experience has suggested. We believe the wisdom of this will appear to many whose boys, though yet too young to begin secondary studies, nevertheless need the systematic training of regular work and personal supervision.

This course of preparatory work includes English Grammar, Arithmetic, History, Geography, and elementary Latin. It is believed that the Latin, with its inflections and order of words, will help the pupil to understand English Grammar, and that it will make the transition from elementary work less abrupt, and will insure proficiency in the First Year's Latin. When it appears that an amount of work has been done equivalent to that of the sixth grade in the public schools, pupils may enter without examination upon the studies of this preparatory year.

Entrance Requirements.

The requirements for entrance to the first year of the regular courses are (1) Elementary English Grammar, (2) Arithmetic (through percentage), (3) American History (Montgomery's or an equivalent), (4) Geography. Previous knowledge of Latin is not essential for admission to this class.

Prize Scholarship Examinations.

Examinations for entrance will be given in the Academy building, 1335 H street, on Monday, September 28, 1896, beginning at nine o'clock a. m. These examinations will be upon the four subjects named; they are open to all who wish to take them, including the members of the Preparatory Class of the previous year. The pupil having the highest general average in these examinations will be given a free scholarship for one year; the pupil having the next highest average will be given a half scholarship for the same time.

Students who have completed the work of the Preparatory year may enter upon the First year without further examination. All others will be expected to take the entrance examination in September. Any who fail in their First year requirements may enter upon the work of the Preparatory year without examination if it appear that they are prepared to do so. Students who enter after the Academic year begins will, upon examination, be assigned to such classes as they are fitted for.

Graduation.

Those completing any one of the three regular courses of study will receive a diploma. Special students who complete the prescribed work in three or more departments will receive a certificate of attainment in those studies. Students who enter upon any line of study will have due credit in that study for work satisfactorily completed in any school of like grade.

INSTRUCTION.

The Academy is conducted on Christian principles, both in its discipline and its teachings, but no instruction is given and no influence exerted that is of a sectarian character. Effective work is dependent upon order, and order will be maintained. Subordination is essential to

the purpose of study, but, further than this, it is an end in itself. Self-discipline for its own sake is absolutely essential in education. Sympathy and confidence are the necessary relations of the teacher and the pupil. Such relations keep alive the boy in the man and develop the man in the boy. It is believed that all instruction should be an incentive to the pupil, and that that instruction only is wholesome which appeals to the whole man. Studies have been correlated with a view to the symmetrical development of the student, to an insight into the world in which we live, and to some command over its resources.

I.

English.

The study of English is required throughout every regular course. Work in English composition is constant and practical; themes are prepared by all the students and these are corrected and made the basis for positive instruction. The study of every other subject is made to contribute to the training in English.

It is believed that the study of formal grammar has been too much neglected in many schools. The return of grammar is already heralded. It will be taught from a text-book, with frequent exercises in parsing and analysis. A clear knowledge of the principles of syntax is important, and this demands systematic study. It is thought, too, that experience discourages the use of inductive text-books in the earlier years of secondary instruction. The pupil's attitude during this time is mainly receptive and this should define the character of his work. He is credulous that he may receive truth.

In the literature courses masterpieces are studied and memorized, and in the higher classes text-books are used only to give direction and form to the course.

The following lists are arranged for study and supplementary reading:

PREPARATORY YEAR.

Kingsley	Greek Heroes.
Irving	Sketch Book.
Hawthorne	Tales of the White Hills.
Macaulay	Lays of Ancient Rome.
Lamb	Tales from Shakespeare.
Longfellow	The Courtship of Miles Standish.

FIRST YEAR.

Hughes.....	Tom Brown at Rugby.
Scott.....	Ivanhoe.
Stevenson.....	Treasure Island.
Scott.....	The Lady of the Lake.
Whittier.....	Snow-Bound.
Longfellow.....	Evangeline.

SECOND YEAR.

Irving.....	Tales of a Traveller.
Cooper.....	Deerslayer.
Hawthorne.....	The House of the Seven Gables.
Wallace.....	Ben-Hur.
Webster.....	Adams and Jefferson; First Bunker Hill Oration.
Lowell.....	The Vision of Sir Launfal.

THIRD YEAR.

Goldsmith.....	The Vicar of Wakefield.
Blackmore.....	Lorna Doone.
Shakespeare.....	The Merchant of Venice.
Shakespeare.....	Julius Cæsar.
Tennyson.....	The Idylls of the King.
Ruskin.....	Selections.
Emerson.....	The American Scholar.

FOURTH YEAR.

Inductive studies on the College Requirement list of the following year.

In 1897, Shakespeare's *The Merchant of Venice*, Burke's *Speech on Conciliation with America*, Scott's *Marmion*, and Macaulay's *Life of Samuel Johnson* will form the list.

In 1898, Shakespeare's *Macbeth*, Burke's *Speech on Conciliation with America*, De Quincey's *The Flight of a Tartar Tribe*, and Tennyson's *The Princess*.

In 1899, Shakespeare's *Macbeth*, Milton's *Paradise Lost*, Books I and II, Burke's *Speech on Conciliation with America*, and Carlyle's *Essay on Burns*.

In addition to this, examinations will be given at intervals throughout the year on a course of general reading, also prescribed by the Colleges. The requirements for this portion of the work in English will be as follows:

In 1897 the books will be Shakespeare's *As You Like It*, Defoe's *History of the Plague in London*, Irving's *Tales of a Traveller*, Hawthorne's *Twice-Told Tales*, Longfellow's *Evangeline*, and George Eliot's *Silas Marner*.

In 1898 they will be Milton's *Paradise Lost*, Books I and II, Pope's *Iliad*, Books I and XXII, The Sir Roger de Coverley Papers in the *Spectator*, Goldsmith's *The Vicar of Wakefield*, Coleridge's *Ancient Mariner*, Southey's *Life of Nelson*, Carlyle's *Essay on Burns*, Lowell's *The Vision of Sir Launfal*, and Hawthorne's *The House of the Seven Gables*.

In 1899, Dryden's *Palamon and Arcite*, Pope's *Iliad*, Books I, VI, XXII, and XXIV, The Sir Roger de Coverley Papers in the *Spectator*, Goldsmith's *The Vicar of Wakefield*, Coleridge's *The Ancient Mariner*, De Quincey's *The Flight of a Tartar Tribe*, Cooper's *The Last of the Mohicans*, Lowell's *The Vision of Sir Launfal*, Hawthorne's *The House of the Seven Gables*.

II.

Mathematics.

These studies are of fundamental importance and are required throughout all the regular courses. The aim is thoroughness; the pupil is taught principles rather than rules, and examples are regarded as training in the knowledge of the principles which they illustrate. So far as possible all processes will be illustrated and explained by visible magnitudes, as the mind most readily grasps the relationship of quantities through the eye.

In Arithmetic the time will be devoted to the study of such practical examples as the boy meets at every turn. In percentage the more general applications will be studied. Intricate problems of exchange, customs, equation of payments, and all unintelligible applications of Arithmetic will be omitted. The aim will be to make the student master of such processes as he may need in life.

In Algebra the course in factoring will be emphasized as furnishing a firm foundation for all that follows. The identities and differences between Arithmetic and Algebra will be constantly illustrated.

In Geometry the pupil will be encouraged to seek original solutions. By oral recitation, without the aid of a drawing, he will be trained to a clear conception of the theorem and to facility in processes of reasoning. The work in original exercises will be thorough and constant, in order that the student may see that the principles he has studied are of general application.

III.

The Ancient Languages.

Latin and Greek are of the highest importance in the Secondary school. The work in these languages is preparatory to the appreciative study of their literatures. In this preparatory study Grammar and Composition become an end in themselves, and they are also a most efficient means of mental discipline. The man who knows no Latin or Greek has innumerable doors of scientific and professional activity closed to him, and he finds his own language a mystery.

The aim of the Academy is to graduate students who can write and explain Latin and Greek with a degree of readiness, and can translate these languages with ease and accuracy. Knowledge of the principles of Latin and Greek construction will be tested by constant exercise in composition.

Attention will be paid to Latin and Greek terms and roots with a view to their proper use in the construction of scientific terminology. Passages will be memorized, and written work will supplement oral work in the class-room, in order that ear and eye and memory may aid in fixing the forms of the language.

The text itself will be read and the pupil will be encouraged to appreciate the meaning without translation and in the order of the original. Questions on the text will, in general, be asked before the translation is begun. This holds attention on Latin forms and relations, and by removing difficulties beforehand, makes possible a rendering into idiomatic English.

IV.

The Modern Languages.

A knowledge of French and German not only opens to the student the treasures of two of the greatest and richest of all literatures, but it broadens his mind by presenting facts and ideas from a point of view widely different from that of the English-speaking races. The ability to read French and German is absolutely necessary to the student of science or of English literature.

The chief object in the lower courses is to enable the student to translate readily at sight, and ultimately to be able to understand the language

without the medium of English. To this end reading is begun very early in the course, and a large amount is read at sight during the year. Constant practice in pronunciation is given. Only the essentials of grammar are taught, the finer points of syntax being reserved for later years. Great stress, however, is laid upon thoroughness in these essential parts of grammar, as otherwise intelligent reading is impossible; but the grammatical work is always kept strictly subordinate to the main object of the course—ability to read at sight.

V.

History.

In accordance with the increased importance attaching to the study of history the courses of this department have been considerably extended. American history is studied throughout the preparatory year. As important problems in government and civilization appear in their simplest form in the history of Greece this is made the basis for the work of the regular course. Comprehensive work in English history is required in the earlier years. Those who demand special studies in American history may take them in connection with Civil Government in the third year. A course in Mediaeval history is also given in this year, and in the last year there is arranged an intensive study of topics from Greek and Roman history.

History connects itself easily with English. Each is made to strengthen the other through the preparation of essays on historical themes. Supplementary reading lists, specially devoted to American topics, are arranged and pupils are encouraged to take this work in connection with the subjects studied.

VI.

Natural Science.

This department of instruction will be greatly enlarged. Desirable courses of study will be given in Physical Geography, Chemistry, and Physics. A laboratory will be equipped at the Academy to afford all facilities for illustration and practice, and such attention will be paid to these branches as their importance demands.

Physical Geography will be made a comprehensive study, treating of the physical environment of man. It will deal specifically with the

physical features of the earth, with elementary studies in botany, zoölogy, astronomy, meteorology, and anthropology. It will be taught, also, with a view to its worth in training powers of observation, of scientific imagination, and of reasoning. Ready access to the National Museum makes possible valuable object-study in many lines of this work.

Chemistry will precede Physics in the course, in order that the pupil may have a better mathematical preparation for the study of Physics. The text-books and the laboratory will be mutually supplementary, and laboratory note-books will embody a record of all work done.

GENERAL INFORMATION.

Term Examinations and Reports. The Regulation of Absences.

The School year will consist of three terms: the first will end at the Christmas holidays; the second at the spring recess; the third in June. Examinations will be given at the end of each term, and term reports of work and conduct will be rendered. Examination work will count one-third in determining scholastic standing. No student will be permitted to enter upon the work of a higher class in any study until that of the lower has been satisfactorily completed.

An excuse, duly signed by the parent or guardian, will be required for every case of absence or tardiness. Excuse-blanks designating the absence or tardiness will be forwarded to the parent or guardian for signature. Absence or tardiness that remains unexcused at the expiration of seven days will be charged against the deportment of the student. All absence necessarily affects scholarship, but unexcused absence and tardiness also affect deportment.

Scholarships.

A limited number of scholarships are available for such students as need assistance. These scholarships may be assigned under certain explicit and invariable conditions. The conditions are (1) that the student's deportment be above censure, and (2) that he attain an average rank of at least .75 in his studies.

In addition to the above scholarships, the "Admiral Powell Endowment" provides a few free scholarships, which will be given (under the same conditions) to students preparing for admission to the United States Naval Academy at Annapolis.

Failure to satisfy the requirements of rank and deportment will constitute a forfeiture of the scholarship, and upon such forfeiture it will be withdrawn.

Friday Lectures.

A course of Friday afternoon lectures has been instituted this year. These lectures, made possible through the kindness of many friends and the close relations of the Academy with other departments of the University, have supplemented the routine work of the School by very entertaining and helpful lines of general culture. Addresses have thus far been made by President Whitman, Dr. Lee D. Lodge, Dr. Otis T. Mason, Mr. E. Hilton Jackson, Prof. Cleveland Abbe, and Dr. A. P. Montague.

Literary Society.

The Hermesian Society, composed of students of the two higher classes, meets weekly for practice in debate and for improvement in composition. The society is under the general supervision of the instructors, but this supervision never takes the form of disagreeable interference.

Three medals are given by this society. One is awarded by Mr. A. M. Sayre to the successful contestant in a prize debate. Another medal for excellence in debate is given each year by the society, and is awarded to that member who has made the best record as a debater throughout the entire year. The third medal is given by the society to the best essayist.

Annual Prizes.

The Regular Prizes of the Academy consist of First and Second Scholarship Medals in each class.

Gold medals are also given to those students who have been blameless in deportment and against whom there is no record of absence or tardiness during the entire session.

Through the liberality of the late Mr. Samuel Norment, President of the Central National Bank of Washington, the authorities of the School will award annually three prizes (\$25, \$20, and \$15) to the students whose scholarship, combined with irreproachable conduct, shall entitle them to be considered respectively the First, Second, and Third Honor Boys of the School. These prizes will be awarded only to those who take the full course.

The following special prizes are also given:

The Roome Gold Medal, founded in honor of the lamented and

scholarly Dr. Edward Roome, for excellence in the Greek Language, given by Mrs. Lillian K. Roome.

The Gold Medals for excellence in Declamation at the Commencement, given by Mr. B. H. Warner.

The Sayre Gold Medal, for excellence in Debate.

HONOR ROLL.

(Session 1894-'5.)

FOR HIGH GRADE OF SCHOLARSHIP.

First Class—First Prize: David Laurance Chambers.
Second Prize: Stanton C. Peelle.

Second Class—First Prize: Manfredi F. Lanza.
Second Prize: Arthur Prince Spear.

Third Class—First Prize: Nelson H. Rollins.

Fourth Class—First Prize: Raymond Outwater.

Jackson Gold Medal in Latin—David Laurance Chambers.

Roome Gold Medal in Greek—David Laurance Chambers.

Hodgkins Gold Medal in Mathematics—David Laurance Chambers.

Alden Gold Medal in English Composition—David Laurance Chambers.

Cuthbert Gold Medal in History—David Laurance Chambers.

Townsend Gold Medal for Elocution during the Session—William Dent Sterrett.

The Webster and Depew Gold Medals for Declamation at the commencement, presented by B. H. Warner, Esq., awarded by a Committee of Judges—first award, David Laurance Chambers; second award, William Dent Sterrett.

Sayre Gold Medal for Excellence in Debate—Manfredi F. Lanza.

Hermesian Gold Medal for Excellence in Composition—Rolvix Harlan.
Honorable mention of David Laurance Chambers.

Prizes founded by the late Samuel Norment, Esq., and now given by Mrs. Norment, awarded to the highest-honor boys of the School:

First prize—\$25 in gold: David Laurance Chambers.

Second prize—\$20 in gold: Raymond Outwater.

Third prize—\$15 in gold: Manfredi F. Lanza.

Gold medals for Punctuality and Deportment:

Four years—George Emery Green.

Three years—David Laurance Chambers and Stanton C. Peelle.

Two years—William Saunders Manning.

One year—Louis Glavis, Manfredi F. Lanza, Selma M. Mason, Raymond Outwater, George I. Raybold, Nelson H. Rollins, Otto L. Veerhoff, Thom Williamson, Jr., W. Lothrop Woodward, and W. B. Yoder.

Graduates.

J. William Beatty,	English, French, Mathematics, Physics, Latin, Greek.
Lorenzo Starr Brown, Jr.,	English, French, Mathematics, Physics.
D. Laurance Chambers,	English, French, Mathematics, Latin, Greek.
William Plumer Copeland,	English, Mathematics, Physics.
William Lowry Farnham,	English, French, Physics.
Donald C. Fugitt,	English, French, Mathematics, Physics.
G. Emery Green,	English, French, Physics.
Rolvix Harlan,	English, French, Mathematics, Physics.
William Saunders Manning,	English, French, Mathematics, Physics.
Selma M. Mason,	English, French, Mathematics, Physics.
William Mitchell,	English, French, Mathematics, Physics, Latin.
Stanton C. Peelle,	English, French, Mathematics, Physics, Latin, Greek.
Bishop C. Perkins,	English, French, Mathematics, Physics.
Preston B. Ray,	English, French, Mathematics, Physics.
George I. Raybold,	English, French, Mathematics, Physics.

Students.

NAME.	PATRON.	ADDRESS.
W. Elmer Bacon.....	Mr. S. H. Bacon.....	1416 N St.
Wirt Barham.....	Hon. J. A. Barham.....	"Ebbitt."
Charles Bell.....	Gen. George Bell, U. S. A.....	1909 G St.
Earl Biscoe.....	Maj. H. L. Biscoe.....	813 21st St.
Charles Bittinger.....	Mrs. I. M. Bittinger.....	1421 K St.
Everett H. Brosius.....		2420 14th St.
Augustus J. Burgdorf.....	Mr. Augustus Burgdorf.....	1334 N. Y. Ave.

NAME.	PATRON.	ADDRESS.
Frederick B. Burke.....	Mr. T. W. Burke.....	800 L St.
Charles T. Cabrera, Jr..	Mr. Charles T. Cabrera.....	1914 Penn. Ave.
Liddell Caffery.....	Hon. Donaldson Caffery.....	1334 19th St.
Harry Clark Caldwell..	Dr. Charles T. Caldwell.....	949 S St.
Horace W. Chittenden..	Mr. George B. Chittenden....	Mt. Pleasant.
Andrew J. Cummings..	Mrs. Mary E. Cummings....	Chevy Chase, Md.
Morris E. Dow.....	Mrs. Wm. Coppinger.....	927 French St.
John C. Drake, Jr.....	Mrs. E. B. Drake.....	1321 M St.
Otis B. Drake.....	Mrs. E. B. Drake.....	1321 M St.
James F. Dunlop.....	Mr. Wm. L. Dunlop.....	3014 N St.
Frank Norton Everett..	Mr. Edgar L. Everett.....	"Concord."
Joseph H. Falconer....	Mr. W. C. Johnson.....	1502 13th St.
Weston Brown Flint....	Col. Weston Flint.....	1213 K St.
Carroll T. Fugitt.....	Mr. N. B. Fugitt.....	1212 K St.
Joaquin A. Gana.....	Señor Domingo Gana.....	1319 K St.
Louis Glavis.....	Dr. George O. Glavis.....	1701 Q St.
Lafayette Greenlaw....	Mr. S. B. Greenlaw.....	Oak Grove, West- moreland Co., Va.
Raphael N. Gwynn....	Mr. R. C. Gwynn.....	17 Iowa Circle.
Charles H. Holmead, Jr.	Mr. Charles H. Holmead.....	1527 I St.
A. Lawrence Hopkins..	Mr. Archibald Hopkins.....	1826 Mass. Ave.
Alfred Francis Hopkins.	Mrs. F. A. M. Hopkins.....	1730 I St.
Manfredi F. Lanza....	Mme. Clara Lanza.....	13th and Prince- ton Sts.
Melville W. Lindsey....	Mr. Samuel E. Lindsey.....	Alexandria, Va.
William V. Mason, Jr..	Mrs. Eva M. Mason.....	1706 F St.
F. Vallette McNair....	Commodore F. V. McNair, Yokohama, Japan.	U. S. N.
Arthur C. Morgan.....	Mr. R. W. Morgan.....	2410 Pa. Ave.
Henry J. Mullin.....	Mr. Z. T. Mullin.....	"Bancroft."
William Dunlop Owens..	Dr. Thomas Owens, U. S. N..	1203 N. H. Ave.
Raymond Outwater....	Rev. Theron Outwater.....	1352 B St., S. W.
Bennett L. Porter.....	Mr. M. G. Porter.....	1538 I St.
Wallace A. Ritchie....	Mr. J. Suit Ritchie.....	620 E St., N. E.
Richard D. Rittenour..	Mr. N. D. Rittenour.....	815 King St., Alexandria, Va.
Nelson Rollins.....	Mrs. M. F. Rollins.....	1261 4½ St., S. W.
G. M. Rye, Jr.....	Mr. G. M. Rye.....	"Metropolitan."
William Sioussat.....	Mr. C. M. Sioussat.....	1736 Q St.

THE COLUMBIAN ACADEMY.

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NAME.	PATRON.	ADDRESS.
Arthur P. Spear.....	Gen. Ellis Spear	Columbia Heights.
Davis Fonville Stakely..	Rev. Charles A. Stakely.....	1414 16th St.
Douglas Sterrett.....	Rev. J. M. Sterrett.....	Columbian Uni- versity.
William D. Sterrett....	Rev. J. M. Sterrett.....	Columbian Uni- versity.
Andrew Bryson Taylor.	Medical Director J. Y. Taylor, 1727 Q St. U. S. N.	
William J. G. Thomas..	Mr. Van Buren Thomas.....	1839 6th St.
J. E. Van Auken.....	Mr. F. L. Van Auken.....	1304 F St.
Otto L. Veerhoff.....	Mr. W. H. Veerhoff.....	910 8th St.
Louis W. Weaver.....	Mrs. A. M. Weaver.....	412 T St.
George Wedderburn....	Mr. Alexander Wedderburn..	931 R. I. Ave.
John Wignall.....	Mrs. R. R. West.....	Brookland, D. C.
W. Lothrop Woodward.	Mr. S. W. Woodward.....	2015 Wyoming Ave.
Gasquet di Zerega.....	Mr. Alfred di Zerega.....	2114 O St.
Students in the Academy.....55.		

Calendar.

1896.

Sept. 28, Monday	Entrance Examinations.
Sept. 30, Wednesday.....	First Term begins.
Nov. 26-29, inclusive.....	Thanksgiving Recess.
Dec. 14-18, inclusive	Examinations.
Dec. 18, Friday.....	First Term closes.

WINTER VACATION.

1897.

Jan. 4, Monday.....	Second Term begins.
Feb. 22, Monday.....	Washington's Birthday, Holiday
March 15-17, inclusive	Examinations.
March 17, Wednesday.....	Second Term closes.
March 18-21, inclusive	Spring Recess.
March 22, Monday.....	Third Term begins.
April 16, Friday	Holiday.
May 31, Monday.....	Memorial Day, Holiday.
June 1-4, inclusive.....	Examinations.
June 4, Friday.....	Third Term closes.
June 8, Tuesday	Annual Graduation Exercises.

Expenses.

Tuition for the Scholastic year, \$100. Students received under the former rates of tuition may continue in the Academy at the same charge.

Students taking Chemistry or Physics will be charged a fee of \$10 to cover cost of materials and breakage in laboratory practice.

All bills must be paid half yearly in advance, the first half due in September, the second half February 1. Bills are payable to

ROBERT H. MARTIN,

Secretary and Treasurer of Columbian University.

To Patrons.

The Dean will be at the Academy, 1335 H street, northwest, from the twenty-first of September until the twenty-sixth, inclusive, from 10 o'clock a. m. to 1 o'clock p. m., to meet patrons and answer inquiries concerning the School. Entrance examinations will be given on Monday, the twenty-eighth of September. All new students wishing to enter upon the work of the First year will be expected to take these examinations. The Academic year begins on Wednesday, the thirtieth of September.

Patrons and friends are invited to visit the Academy and inspect the work of the class-room. Catalogues and full information will be sent to any address on application to

WILLIAM ALLEN WILBUR,

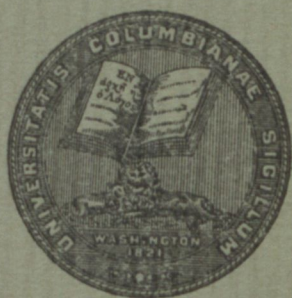
Dean of the Academy.

THE COLUMBIAN UNIVERSITY.

President's Annual Report

FOR THE

YEAR 1895-1896.



WASHINGTON, D. C.:
JUDD & DETWEILER, PRINTERS.
1896.

532925

Annual Report of the President of the Columbian University.

To the Corporation of the Columbian University.

GENTLEMEN: I beg to submit the following report for the present academic year.

The work in all departments has been marked by thoroughness and enthusiasm. The character of the gentlemen who are serving the University in the different faculties is too well known to need comment. The names of these gentlemen are a sufficient guarantee of efficiency. The student body has responded to every call with a spirit in every way gratifying. Of course, differences of opinion have arisen at many points, but at every point all concerned have exhibited marked desire to be persuaded of the truth and marked willingness to mutual concession. This has made the year pleasant and profitable.

DEATH OF PROFESSOR FAVA.

It is with sorrow that I report the death of Professor Francis Renatus Fava. Professor Fava was an accomplished and efficient teacher. His service, particularly to the Corcoran Scientific School, was invaluable, where he made the department of Civil Engineering one of the strongest in the school. At the request of the family of Professor Fava, the exercises at the funeral were conducted by the University in the presence of representatives of the legations. Addresses were made by the President, for the University, the Vice-President, for the Corporation, and Rev. C. A. Stakely, D. D., for the Board of Trustees. The faculties were represented by the Deans, and resolutions of condolence were afterward presented to the family by the colleagues of our lamented Professor.

PROGRESS.

It is a satisfaction to report progress in every department. THE ACADEMY has been under the direction of Dean Wilbur, who has in every way justified the expectation of his friends.

Genial, scholarly, self-possessed, energetic, he has taken up all the best traditions of the school, has built upon the noble work of his predecessors, has set a new purpose before the students, and has created demands which are a guarantee of enlargement. The courses of study have been improved; standards have been raised; discipline has been improved; school spirit has been developed; scientific courses have been added; provision has been made for a laboratory. Possibly the most important item of all, a change of policy in the matter of teachers has been adopted. For various reasons it has been found necessary in the past to engage the services of teachers partly in the Academy and partly in the College. On the whole, the wisdom of this arrangement may be doubted so far as the Academy is concerned. A man ordinarily will give his better effort to his higher classes. Without any thought of neglect, it is inevitable that as between College and Academy classes the College classes should have the advantage. Of the present teaching force of the Academy, only Mr. Henning is engaged in the College. Even in this case it was kept in mind, when the double appointment was made, that after the present year it would probably not be necessary, and that next year the Academy faculty would be appointed to that school only.

The attendance has been unusually small. It is believed, however, that the decrease is only temporary, and that the results will be very different another year.

The number of instructors is 6; of students, 55.

THE COLLEGE has been the object of unusual solicitude. A conviction has been growing that, important as strictly University work is, we cannot afford to ignore undergraduate work. The curriculum, therefore, has been very rigorously revised, and at numerous points has been improved by the introduction of new courses. Indeed, whole schools have been inaugurated. Separate chairs have been established in French, German, History, and Civil Engineering. The chair in Civil Engineering will enable us to offer work never hitherto undertaken in the

College. Its establishment was stimulated by the generosity of Mrs. Henry Harding Carter, who gave to the University the sum of five thousand dollars to found scholarships in that subject in the College. The establishment of separate chairs in French, German, and History has made possible much needed differentiation of work in other departments, so that these additions have affected favorably the entire College curriculum.

The number and the spirit of the students have been very gratifying. The spirit could not well be surpassed, and the number is far in advance of any year hitherto. The Dean has been unwearied in his service. It is only the part of justice if I make special mention of his effort. He has given himself without stint, adding to his teaching hours not less than three or four hours daily in general care for the College. Much of this effort has had reference to the future. It has opened communication in many directions, and there is reason to look for increased attendance as a result.

The number of professors and instructors is 13; of lecturers, 3; of students, 99.

THE CORCORAN SCIENTIFIC SCHOOL has added to its already attractive courses. The remarkable growth of this school indicates what a need it is meeting. It is worthy of note that the number of students working for degrees is rapidly increasing. This means more compact organization presently, increase of income, and, what is worth incomparably more, an enlarged body of graduates, who are after all the true test of the character of an institution.

The number of professors and assistant professors is 25; of instructors and assistants, 24; of lecturers, 8; of students, 227.

THE SUMMER SCHOOL has so far proved itself adapted to meet a public need that, on the advice of the Dean of the Scientific School, under whose auspices the Summer School has hitherto done its work, the Trustees have authorized that the Summer School be henceforth recognized as a distinct school. During the year Professor L. D. Lodge, Ph. D., who had been Dean of

the Summer School, resigned. The new head is Professor H. L. Hodgkins, Ph. D., who will be known as Director.

THE SCHOOL OF GRADUATE STUDIES has vindicated its usefulness anew in its record for the year. The fact that some of our conditions are somewhat unusual and exacting doubtless has deterred some students from becoming candidates for higher degrees. On the whole, however, it will prove an advantage to make requirements severe, as correspondingly increased value will be assigned to the degrees.

The number of professors is 30; of lecturers, 1; of students, 43.

THE SCHOOL OF MEDICINE has repeated its record of success. A most satisfactory year can be reported. The faculty has been strengthened. The number and the quality of students are most promising. The course is very strong. The achievements of recent graduates reflect distinction upon both themselves and the institution. The number of graduates this year was 19. Some will wonder that the number was not greater. The real wonder is that there were graduates at all. Three years ago the course was lengthened from three years to four. This is the year for the effect to be felt. Ordinarily there should be no graduating class. The fact that under such conditions the school sent out nineteen men is very significant.

The number of professors, clinical professors, and associate professors, is 30; of demonstrators, 7; of assistants, 13; of students, 164.

THE SCHOOL OF DENTISTRY is progressing steadily. No material changes have marked the year.

The number of professors is 8; of demonstrators and assistants, 7; of operators, 6; of students, 63.

THE SCHOOL OF LAW continues to justify the pride of its friends. The only marked change of the year has been in the special course in Patent Law. How attractive a course this is likely to prove is indicated by the fact that in this its first year 19 men graduate from it.

The number of professors and lecturers is 12; of students, 372.

For detailed account of the different schools, reference is respectfully made to reports of Deans, subjoined.

CENTRALIZATION.

A noteworthy feature of the year has been growth of an institutional spirit. Too much for the good of the University, our life in the past has been lived by schools. Our organization is largely responsible for this, making it difficult to preserve personal contact and personal sympathy between the different departments. So far as I can learn, there have hitherto been few, if any, general gatherings either of faculties or students. The result has been a kind of isolation which has worked ill to our interests as a whole. Two occasions of special moment in this particular have been observed this year. On February 14th the faculties of the University were entertained at a most delightful reception by Dr. and Mrs. C. W. Richardson on behalf of the Alumni Association, of which Dr. Richardson is president. At the inauguration, November 15th, effort was made to secure the attendance of the students. The result was most gratifying. Very few were absent and the contribution of the students to the enthusiasm of the evening was very marked. So vigorous, indeed, was their participation that unfavorable comment was caused in some quarters. Unfavorable criticism, however, was due, in my judgment, to misconception. I am fully persuaded that not the slightest disrespect was intended toward any speaker. The simple fact is that the students had never all been together before, and the discovery of their strength was too much for them, so that it took a little time to get steadied down. The value of these occasions as exhibitions of university spirit was very great and indicates lines of effort which it will be worth our while to follow. The social as well as the administrative importance of association emphasizes the need of regular meet-

ings of the faculties at as frequent intervals as possible. Part of the faculties already have such meetings. The others should be encouraged to improve upon their present policy in this regard.

I wish to record with emphasis my indorsement of the system of deans, in operation for the first time in all schools this year. The interests of the University are so many and so varied that our only hope of efficiency lies in careful organization of each school, at the same time keeping in mind the fact that the University is one. As now organized, each faculty has its own dean. Monthly meetings of the deans are held, allowing the presentation of reports from each school and the interchange of thought concerning the welfare of the institution. In this way all departments are kept in touch with one another and a sense of common interest assured.

A double service looking toward centralization has been rendered directly by the students. We have enjoyed during the year *The Columbian Call*, a weekly paper conducted entirely by the students and largely supported by them. This is an undertaking very deserving of encouragement. We have also seen an entire reconstruction of athletic interests by the students. The great difficulty with athletics hitherto has evidently been lack of continuity. Lack of permanent organization and unauthorized engagements by individuals have involved the teams in embarrassments which have reflected discredit upon the University. A General Athletic Association has now been formed, to exercise oversight of all athletic interests. This will prevent unwarranted appeals to the public, will give order to our athletic work, and will enable the University to lend sympathy and guidance to student sports. The year has necessarily been experimental, but the results warrant confidence in the movement.

ENLARGEMENT.

The next radical step for the University must be enlargement. Development up to date indicates that we shall soon be compelled to face the question of larger quarters. When the present main building was erected, it was supposed to be large enough for all demands likely to be made upon it. Twelve years have filled it to its limit. The School of Law is already crowded. Neither the College nor the Scientific School has class-rooms enough. The School of Medicine also is overcrowded, and the School of Dentistry needs more room. Only one thing should be thought of—enlargement. What is needed is its own building for each school, and these not scattered but related, so that every student and every professor shall feel the life of the whole institution. Particular recommendations concerning the matter of enlargement would probably be of little practical value under prevailing business conditions, but it will not be amiss to say that lines of development seem to be opening with sufficient clearness to indicate that our hopes are worth cherishing. The guarantee fund has made it possible to take the first steps in enlargement by strengthening the Academic Department. With the surplus from this year's apportionment I hope to see something done for the Library, which sorely needs attention as regards both books and use. As soon as resources warrant, I hope to ask your approval of somewhat radical plans, which may prove of import to the future of the University.

REPRESENTATION.

I wish to express in the strongest terms possible my gratitude for the cordiality of the reception and coöperation which have made the year a delight to me. It has been a source of unflinching satisfaction to find that our University has a warm place in the affections of our city. It has been my privilege on many occasions to represent it, and in every instance the most kindly

interest has been manifest. This experience has been repeated on many occasions away from home. My own experience has been found true also by others. It is worthy of note that members of the institution have cheerfully responded to calls made upon them for representation, and the reward has come to the institution in increased public interest.

In my judgment, the work of representation is very important. At home and abroad there are many whose influence will be of untold value to our work. Personal relations must be established with these. It is my purpose next year to call more frequently than this year upon our professors, who, burdened as they are, gladly add to their other service this also, that they carry the University in their own persons, giving it voice and contact with the public. It is my purpose also to add to my own work in this direction. In all quarters I have found this year many who feel profound interest in our opportunity, but who have not kept informed of our growth. In my judgment, it will be well to renew acquaintance with such. There is only one way to accomplish this end, and that is by personal effort. It is my purpose, therefore, to attempt no teaching next year as I have attempted none this. Ultimately I hope to teach, but for the present I do not think it would be wise to undertake class-room work.

The outlook for the coming year is full of promise. Friends of the institution who have long known and loved it say that the indications are more favorable than ever before. We have reason to hope that the confidence so felt can be justified, and that the foundations laid by the great and good men who have guided Columbian's destinies hitherto can be built upon in a way to conserve all that is best in the past and make it the way to the best in the future.

Respectfully submitted.

B. L. WHITMAN.

REPORT OF DEAN OF COLUMBIAN COLLEGE.

THE COLUMBIAN COLLEGE,
WASHINGTON, D. C., *May 25, 1896.*

TO THE PRESIDENT.

SIR: I have the honor to submit the following report concerning the Columbian College for the academic year 1895-'96:

I. The number of students enrolled is ninety-nine (99), the largest attendance, as far as I can ascertain, in the history of the College.

II. I have recently sent to about five hundred alumni of the various departments of the University and other friends of the institution circular letters, setting forth the advantages offered by the College and requesting each one to furnish me with the names and addresses of several young men or young women who are preparing to enter college. As the result of this method of giving information concerning the development of the College courses and of the appeal for help in augmenting the membership of the student body, I have already received the names and addresses of nearly three hundred young men and young women, to whom letters have been sent showing the growth of the College along lines of added schools and expanded courses of instruction and requesting all who feel an interest in the institution to call at the College or to write for catalogues. There is reason for hope that the execution of this plan will bring an increase in the number of students.

III. Fifteen years ago the College had but five full professors and three instructors, while the number of students was thirty. Now it has ten professors, three instructors, three lecturers, and ninety-nine students. With the addition of the Professor of Civil Engineering we shall have a teaching corps of seventeen.

After a careful inspection of the catalogues of other institutions, a close questioning of students who are in attendance at other colleges, and a comparison of our methods with those pursued elsewhere, it is my deliberate opinion that, although we do not as yet offer as many courses as certain other schools, the Columbian College furnishes instruction as sound and as thorough as can be found in any college in our country. If there are any who question the validity of this opinion, their doubts will be dispelled by an examination of the graduating class of this scholastic year or of any other class in the College. It is necessary, in order that the present high standard may be maintained, and that the diplomas of the College may everywhere command respect and give to the holders

thereof a well-founded hope of success in obtaining upon the strength of their credentials the employment which many of them seek, that the requirements for graduation be *in all cases* rigidly enforced.

IV. The plans of the Corporation for the enlargement of the Faculty, to which reference has been made above, have been brought to accomplishment, and the effect of the execution of these plans is far reaching in the added power given to the teachers of the College, since, with the increased force of professors and instructors, several men of marked ability have been secured, while professors who have long borne the burden each of two distinct schools, now, with concentrated energy and far more decided efficiency, devote themselves to single departments. Thus the long-desired and excellent purpose of the Board has been attained—each school of the College has its own head.

V. The added thoroughness of instruction in the Academy, due to the exertions of its able Dean, insures for the Freshman Class a higher standard than ever before, while the proficiency of those who enter from that department will be to pupils from other schools an incentive to more earnest work.

VI. I respectfully recommend that, should it be found impossible to secure dormitories in time for the opening of College in September, arrangements be made with the proprietor of some boarding-house, to the end that special terms be fixed for students, and that such house be regarded for the time as the College boarding-place.

VII. I cannot speak too highly of the faithful service and the successful work of my colleagues, whose devotion to the College is to the worthy student as much an incitement to duty as their high scholarship is to all a guarantee that their instruction merits absolute confidence.

To you, sir, I wish to tender my sincere thanks for the kindness which I have ever received at your hands, and I desire, moreover, to assure you of the appreciation of my colleagues and myself of your wise direction, to which the success of the academic year is so largely due.

Very respectfully yours,

A. P. MONTAGUE, *Dean.*

REPORT OF DEAN OF CORCORAN SCIENTIFIC SCHOOL.

THE COLUMBIAN UNIVERSITY, CORCORAN SCIENTIFIC SCHOOL,
WASHINGTON, D. C., May 23, 1896.

Rev. B. L. WHITMAN, D. D.,
President of the Columbian University.

SIR: I have the honor to render the following report on the condition of the Corcoran Scientific School during the academic year 1895-1896. The comparative growth of the School is shown by the following tables:

Number of Students in Attendance.

Year.	Number.	Gain or loss.
1885.....	126
1886.....	71	-51
1887.....	78	4
1888.....	84	6
1889.....	82	-2
1890.....	109	27
1891.....	110	1
1892.....	139	22
1893.....	174 169	30
1894.....	235 214	45
1895.....	251 237	23
1896.....	254 227	-10

The number first given (254) includes the students in the Summer School, but I have, as in my previous reports, eliminated in my final estimate for demonstrating the growth of the School all names other than those of students formally enrolled in the Scientific School.

Receipts from Tuition.

Year.	Total.	Gain or loss.
1885.....	\$3,569 35
1886.....	5,390 34	\$1,820 99
1887.....	4,113 25	-1,277 09
1888.....	3,488 04	-625 21
1889.....	4,016 49	528 45
1890.....	3,596 38	-420 11
1891.....	4,386 37	789 99
1892.....	5,920 98	1,534 61
1893.....	7,132 04	1,211 06
1894.....	8,951 00	1,818 96
1895.....	10,404 02	1,453 02
1896.....	12,740 61	2,336 59

(11)

It should be said regarding the receipts for 1896 that the actual receipts paid up to May 22, when this record was drawn, including \$285 from the Summer School, is \$12,136.36; but as all the totals above are given to June 1 of their respective years, I have included in this the balance of \$604.25, due May 31.

Candidates for Degrees.

1893.....	41
1894.....	55
1895.....	57
1896.....	78

Graduates.

1893.....	7
1894.....	6
1895.....	3
1896.....	3

The evidence drawn from this statistical review is gratifying, for while the actual number of students enrolled in the School is 10 less than for the previous year the number who are candidates for degrees is 21 greater. As has been stated in previous reports, it is the settled belief of the faculty that our most healthful and enduring growth comes from the increase in the number of students taking full courses of study with a view to seeking a degree rather than from the increase in special students taking but one or two topics, though in the table of "students in attendance" each of these classes has been counted alike.

With a view to encouraging these full-course students, the faculty has, through its specially appointed committees and at a series of meetings, carefully scrutinized and thoroughly discussed the courses of study offered as leading to the degree of Bachelor of Science, and it decided that the courses heretofore offered were too highly specialized, and that as undergraduate courses they should be changed so as to include a large number of topics and lay a broader foundation. Acting on this, there has been introduced into the last three years in each of the thirteen courses Descriptive Mineralogy, General Physics, General Astronomy, Trigonometry, Analytical Geometry, Systematic Geology, Logic, and French or German.

As, according to our present system of assessing fees, the annual fees in several of the full courses of study required for degrees are excessive, burdensome, and prohibitive, the faculty have recommended that no annual fee for a full course of study, including laboratory work, should

exceed \$150.00, and that the special fee for tuition be, for a single study not involving laboratory or field work, \$40.00 per annum; for two such studies, \$75.00 per annum, and for three or more, \$100.00 per annum, in place of the lower fee now charged. It is respectfully urged that the Trustees take early action on this matter, so that if the recommendation of the faculty be approved due notice may be given to the students.

The number of professors and assistant professors attached to the School is 25; of instructors and assistants, 24; of lecturers, 8.

Through the death of Professor Fava, on March 27, 1896, the School lost a most efficient, accomplished, and enthusiastic teacher, who had made his department of Civil Engineering one of the strongest departments in the School. Since his death his duties have been performed by Mr. Felix Freyhold, C. E., Assistant in Iron and Steel Construction, in a most satisfactory manner, and he has thoroughly demonstrated his capacity to fill this chair.

Owing to his being obliged to take up his residence in London, Professor Charles E. Barry, who had created the Department of Architecture, was compelled, much to our regret, to tender his resignation. We have been fortunate in securing, to fill this chair, Mr. J. C. Hornblower, who is not only a thoroughly educated architect and a successful practitioner, but also a most accomplished gentleman.

By the action of the Board of Trustees a new professorship in Mechanical Engineering has been created and Mr. Hans Zopke elected to the chair. Mr. Zopke has not only secured a unique position by the manner in which he has passed his various governmental examinations, but he has enjoyed the rare opportunity of serving as principal assistant to Dr. Reuleaux, Professor of Mechanical Engineering in the Berlin Institute of Technology. It is a compliment to this University that the Minister of Public Works of the German Empire should have granted Professor Zopke three years' leave of absence for the purpose of accepting this professorship.

The vacancies in the chairs of Physics and Electrical Engineering and of Botany, caused by the resignation of Professors Lewis and Knowlton, have been filled by Dr. Wolff and Mr. Lamson-Scribner. Professor Wolff is a Ph. D. of Johns Hopkins University and enjoys the distinction of being the only man who has thus far held a fellowship in chemistry and a fellowship in physics in that University at the same time. Professor Lamson-Scribner, after a wide academic experience, has been recently chosen chief of the newly created Division of Agrostology in the Department of Agriculture.

Owing to the growth of the Summer School and the fact that it is organically related to all the schools of the University as closely as it is to the Corcoran Scientific School, it has been recommended that it be detached from the Scientific School and made an independent school of the University. For the latter reason, also, it is recommended that the Department of University Extension be also put under an independent head, directly responsible only to the President of the University.

At its January meeting the faculty voted unanimously in favor of a joint commencement of all the schools of the University, and its members expressed the conviction that such action would cement the students of the various schools to the University as a whole and contribute largely to its future growth.

The faculty also expressed itself in favor of the establishment of the Preparatory School recommended in my last annual report, and it was stated that unless such a school were created it would be difficult to raise the standard of the Scientific School as wished.

With a view to raising the standard for graduation, the faculty has changed the number of units required for a degree from sixty to not less than sixty-eight.

Very respectfully,

CHARLES E. MUNROE,
Dean of Corcoran Scientific School.

REPORT OF DEAN OF SCHOOL OF GRADUATE STUDIES.

THE COLUMBIAN UNIVERSITY,
SCHOOL OF GRADUATE STUDIES,
WASHINGTON, D. C., May 23, 1896.

Rev. B. L. WHITMAN, D. D.,
President of the Columbian University.

SIR: I have the honor to render the following report on the condition of the School of Graduate Studies for the year 1895-1896:

The total number of students admitted as candidates for degrees since the origin of the school is as follows:

1894.....	24
1895.....	38
1896.....	39

The candidates for the present year are distributed as follows:

For the degree of Electrical Engineer.....	2
“ “ Master of Science.....	11
“ “ Master of Arts.....	7
“ “ Doctor of Philosophy.....	19
Admitted in attendance.....	4
Total.....	43

The degrees conferred are as follows:

Doctor of Philosophy.....	1894.....	4
“ “.....	1895.....	1
“ “.....	1896 (eligible).....	2
Master of Science.....	1894.....	3
“ “.....	1895.....	10
“ “.....	1896 (eligible).....	8
Master of Arts.....	1894.....	8
“ “.....	1895.....	7
“ “.....	1896 (eligible).....	4

The following changes have taken place in the faculty: Dr. Frank A. Wolff has been appointed Professor of Electrical Engineering in place of Professor E. P. Lewis, resigned. Mr. J. C. Hornblower has been ap-

pointed Professor of Architecture in place of Professor C. E. Barry, resigned. Dr. George J. Smith has been appointed Professor of English in place of Professor Samuel M. Shute, elected Emeritus Professor. There have been created three new chairs in this school, namely, a Professorship of Botany, to which Mr. F. Lamson-Scribner was appointed; a Professorship of Electrical Engineering, to which Mr. Hans Zopke was appointed, and an Associate Professorship of Mechanical Engineering, to which Mr. Elmer S. Farwell was appointed. The vacancies in the Professorship of Mathematical Physics, created by the resignation of Professor A. S. Christie, and that in the Professorship of Civil Engineering, caused by the death of Professor F. R. Fava, have not yet been filled.

The total number of professors and lecturers now attached to the School is 31.

The new subjects of study offered are: Botany, three topics; Mechanical Engineering, 17 topics, and Comparative Neurology. The courses in English and Electrical Engineering have been revised and enlarged.

I desire to call attention to the fact that while eight of the nineteen candidates for the degree of Doctor of Philosophy have satisfied the requirements as to residence and study and were entitled to appear for their final examinations this year, but two of these candidates have availed themselves of this right, the remainder desiring a longer period of study in which to perfect their theses. Thus one of these students, who has nearly completed two years of excellent work in this School and who had spent nearly two years of graduate work at the Johns Hopkins and Yale Universities prior to admission here, has, at his request, been granted leave of absence to continue his studies at the University of Berlin, Germany, with permission to resume his residence here April, 1897, and to satisfy the remaining requirements necessary to secure his degree. This desire manifested by our students to devote more than the minimum time fixed to the securing of this final degree is a wholesome sign that our degrees are respected and valued.

At its January meeting the faculty unanimously voted in favor of the holding of a Joint Commencement of all the Schools of the University.

In closing, I beg to call attention to the confusion arising from the use of the term "schools" to designate unlike divisions of the University. It would, in my judgment, simplify matters if this term were used more distinctively.

Very respectfully,

CHARLES E. MUNROE, *Dean.*

REPORT OF DEAN OF LAW SCHOOL.

Rev. B. L. WHITMAN,

President Columbian University.

DEAR SIR: I have to report that the Law School during the scholastic year about to close has been unusually successful.

We have had on our rolls in all the classes about 380 students, though a number of them, as usual, have not persevered through the year, but have dropped out from time to time. Of the junior class, for example, of whom there were 114 on the rolls, not more than 93 remained at the close of the term.

Besides the instructions of the permanent professors, there have been courses of lectures by Justice Brewer, of the Supreme Court of the United States; Justice Bradley, of the Supreme Court of the District of Columbia; Professor Emmott, of Johns Hopkins University; Messrs. Butterworth, Mattingly, and H. E. Davis; and the new course on Patent Practice, under Mr. Church, a former graduate of the School, promises to be a great success.

On the evenings of the 12th and 14th of this month I examined the senior class on my course which they had received in their second year, and on Monday, the 18th instant, I examined the junior class.

The senior class was examined by Professor Maury on Saturday last, the 16th, on his course. The post-graduate was examined by him at the same time on the equity branch of their course, and on Monday, the 11th instant, they were examined by Professor Johnson on the common-law branch of their course.

It will be the work of at least ten days to arrive at and announce the result of these examinations, as it involves the perusal of thousands of answers to the printed questions propounded, besides an ascertainment of the comparative merits of the examination papers, in order to decide the question of prizes. A similar labor devolves on us in reference to the essays.

I am, very respectfully,

WALTER S. COX.

MAY 20, 1896.

REPORT OF DEAN OF MEDICAL SCHOOL.

MEDICAL DEPARTMENT OF THE COLUMBIAN UNIVERSITY,

WASHINGTON, D. C., May 18, 1896.

Dr. B. L. WHITMAN,

President of the Columbian University.

DEAR DOCTOR: I have the honor to report that the Medical School during the session of 1895-'96 enlarged its corps of instructors and made useful and necessary additions of apparatus to the laboratories. The character of the students—in ability, attendance, application, and enthusiasm—has surpassed that of former years in a very gratifying manner.

The Medical School, in spite of its very modest income, has spent for the session just closed the following sums, which are in addition to the expenses for the previous session of 1894-'95: \$500, salary of Dr. Walter Reed, the newly elected professor of pathology and bacteriology; \$375 to the clinical professors; \$700 for the enlarged equipment of the laboratory for microscopical work; \$200 for the better equipment of the chemical and pharmaceutical laboratories; \$200 for the better equipment of pathological museum. The Medical School paid to the University during the past year a sinking fund of \$1,100; also interest to the amount of \$700, the last two items making a total of \$1,800.

Inasmuch as this \$1,800 is the interest and sinking fund on money which was borrowed from the University for the purpose of enlarging and improving the present Medical building, and inasmuch, further, as this improved building is the property of the University, I submit, respectfully, for your thoughtful consideration whether it will not be just in future that the Medical Faculty be freed from the obligation of paying any interest and sinking fund on that borrowed money.

The Medical School is urgently in need of more microscopes, a microtome, anatomical models, and more cabinets and jars for a valuable collection of pathological specimens given us by the Army Medical Museum.

If you should deem it advisable and practicable to bring the matter before the Board of Trustees, and they should deem it expedient to permit the Medical Faculty to use the sinking fund and interest money in future for adding to the permanent equipment of the Medical Department of the University, the Medical Faculty will be glad to give proper guarantee that the money will be used as indicated.

Dr. de Schweinitz, our Secretary-Treasurer, will make a detailed financial report to you as early as possible.

I have the honor to remain, very truly yours,

D. K. SHUTE, *Dean.*

REPORT OF DEAN OF DENTAL SCHOOL.

THE DENTAL SCHOOL OF THE COLUMBIAN UNIVERSITY,
WASHINGTON, D. C., May 19, 1896.

To B. L. WHITMAN, *President*.

SIR: In compliance with your request for a report of the workings of the Dental Department during the past year, I beg leave to submit the following:

The number of students enrolled for the session of 1895-'96 was sixty-three (63). The graduates numbered fourteen (14). This being the first report that I have been called upon to make as Dean (having served in that capacity for but two sessions), a few comparisons may be permitted to better illustrate the changes that have taken place in the Department in that time. In 1894 the total enrollment of students was forty-five (45); in 1895 it was sixty-three (63); in 1896 it was sixty-three (63). It was noticed that a remarkably large number of students entering the earlier part of the session dropped out toward its close. In 1894 this loss amounted to 20 per cent.; in 1895 to 30 per cent. Steps were taken to ascertain the cause and apply a remedy for this very serious evil, with the gratifying result that during the 1896 session the defection was less than eight per cent. It will thus be readily seen that while the number of students entering during 1896 was exactly the same as for 1895 (63), yet the attendance showed a substantial increase, as nearly that entire number remained throughout the session.

For the session of 1895 the fees were increased $33\frac{1}{3}$ per cent., this advance being rendered necessary by the added cost of extensive laboratory and infirmary teaching, and the large addition to the number of matriculants, in the face of this increase, seems to prove that the student does not object to increased cost if with it is offered greater facility for a professional education.

During the term ending 1895 it was found absolutely necessary to enlarge the Dental Infirmary. This was accomplished by a further encroachment upon the space occupied by the Medical School, the latter generously giving up a portion of its laboratory room, cramped as were its own quarters, to temporarily satisfy the wants of its offspring.

For the coming session a Lectureship on "Oral Surgery" has been established, and the choice of the faculty to fill that position has fallen upon Dr. Jonathan R. Hagan, a graduate of this School, and who for sev-

eral years has most acceptably filled the arduous position of "Demonstrator in charge of the Infirmary."

In closing, I cannot refrain from recording with heartfelt pleasure the remarkable growth of "University spirit" among the dental students. They have conclusively shown that they consider themselves part and parcel of the great University body, and present and future may be relied upon to uphold Columbian and work for its betterment. This feeling was most aptly illustrated when the question of holding "union commencement exercises" was casually broached to them. They voted for it almost as a unit. The opinion of the Dean on the above question scarcely needs recording, as he has most ardently advocated this change for many years, firmly believing that it will be a most important factor in still more closely binding together the various schools, so that working in harmony the united faculties, with united effort, will more speedily raise Columbian to that position which it is surely destined to occupy.

Respectfully submitted,

J. HALL LEWIS, *Dean.*

REPORT OF DEAN OF THE ACADEMY.

THE COLUMBIAN ACADEMY OF THE COLUMBIAN UNIVERSITY,
WASHINGTON, D. C., *May 1, 1896.*

TO THE PRESIDENT:

I have the honor to submit the following report of the affairs in the Academy. The matter contained has to do, first, with the work accomplished by the school during the present year; and, second, with work contemplated for the year to come.

I.

The third quarter's reports sent to parents the 1st of April showed the following: No student in the school has attained the first grade (an average ranging from 96 to 100 per cent. inclusive); 25 per cent. of the students are in the second grade (an average ranging from 90 to 95 per cent., inclusive); 50 per cent. are in the third grade (ranging from 80 to 89 per cent., inclusive), and 25 per cent. are in the fourth grade (ranging from 70 to 79 per cent.). This does not vary much from the results of the first and second quarterly reports; it would seem to be a fair indication of average scholastic standing for the school. I believe this is somewhat below the average in our best schools of like grade. It indicates a somewhat large percentage of unpromising pupils. This inference is confirmed by the year's experience in other ways. If, then, an advance has been made this year in the quality and the quantity of work accomplished upon such unpromising material, it would seem to be a just reason for encouragement.

The work of the various departments of study may be suggested by the following facts gathered from the instructors:

At the beginning of the year the department of English instruction needed reorganization more than any other line of work. Any English exercise given to the school developed deplorable facts. Effort has been made to meet this situation by general exercises in spelling daily; by a general requirement in reading; by a general requirement in essay writing—two essays each quarter; by general instruction in penmanship, and by making English itself a necessary part of every course of study. The effect of this has begun to be apparent; the essays mark this improvement most sensitively. In the third and fourth classes the improvement is pronounced; in the first and second classes it is much less so. The

boys who will graduate this year are not able to write English in a very creditable way. The attainment of the second class is so unsatisfactory that, in my judgment, they should continue the study and practice of systematic rhetoric and composition for another year before entering upon the work of the last year. The grade has to be lifted from the bottom up. The younger boys, at the rate of progress made this year, will be a credit to the Academy on their graduation day.

The work in mathematics for 1895 and for 1896 is shown in the following parallel:

1895.	1896.
First Class.—Four books of geometry. Algebra: Reached quadratics, with about five recitations upon the subject.	(No first class.)
Second Class.—Algebra to simple equations.	Second Class.—Five books of geometry. Algebra: Finished quadratics.
Third Class.—Finished arithmetic.	Third Class.—Algebra to involution and evolution.
Fourth Class.—Arithmetic to interest and discount.	Fourth Class.—Algebra to simple equations.
(No fifth class.)	Fifth Class.—Arithmetic finished.

It will be seen by the above diagram that the boys who graduate this year will have had one book in geometry more than last year's class, and will have completed the subject of quadratics, which was only touched upon by last year's class. The name of "Second Class" borne by those who graduate this year, properly designates their attainments in a school of this grade and properly regulates the nomenclature of the other classes. In this department and in the English, the smaller boys have done especially well. It seems proper to name in this connection Davis Stakely and Bryson Taylor for proficiency in their work, and Weston Flint and Amos Lawrence Hopkins for remarkable improvement in the last half year.

By earnest, persistent effort throughout the year, Mr. H. Grant Hodgkins, our Instructor in Mathematics, has raised the grade in that department by an amount equal to a year of our course. This advance is of very great importance to us.

In Latin the amount of work done is shown in the following table:

1895.

Class I.—Cicero: Six orations, not including "The Manilian Law," and mostly sight reading.
Virgil: Books 3-6, much of it sight reading.

Class II.—Cæsar: Two books.
Virgil: Two books.

Class III.—Cæsar: Books I and II.

Class IV.—First Latin book not finished.

1896.

Class I.—Cicero: Six orations, including "The Manilian Law," and all prepared.

Virgil: Books III, IV, and half of V, all prepared.

Class II.—Two books of Cæsar, with Latin composition in Cæsar to end of year.
(No Virgil.)

Class III.—Cæsar: Four books.

Class IV.—First Latin book (finished).
Cæsar: About twenty chapters.

The second Latin class of this year is not what its name would indicate. It would not maintain itself, side by side, with the third Latin. It will be necessary to consolidate these two classes as "second Latin" next year. At present we have no promise of a first Latin class for next year. The second and the fourth classes merit special mention for excellent work. The third class will have read all of the required "Cæsar" and the fourth class is at present advancing at the rate of a chapter a day in Cæsar. The work of these two classes is, I believe, equal to the best that is done in secondary schools.

A similar parallel statement of the work of the Greek classes has been furnished by the instructor:

1895.

Class I.—Anabasis: To Book V.
Homer: Books 1, 2, 3.

Class II.—Anabasis: To Book III.

Class III.—White's Beginners' Greek Book.
Anabasis: Book I to chapter 3, paragraph 8.

1896.

Class I.—Anabasis: To Book V.
Homer: Books 1, 2, 3.

Class II.—Anabasis: To Book III, chapter 4.

Class III.—White's Beginners' Greek Book.
Anabasis: Book I to chapter 7.

Mr. Henry R. Pyne, our instructor in Greek and Latin, is deserving of high commendation for the results attained with these classes.

Mr. George N. Henning, instructor in French and German, reports that the class in French will read twice as much as last year's class, and will also do more work in the grammar of the language.

The German class has accomplished a satisfactory amount of work. Instruction in German has not been given before this year. We are now able to meet college requirements in either French or German.

Up to the present time history has not been regarded as of sufficient importance to be made a distinct department of instruction. A course in history has been provided for, but it has not as yet been fully entered upon. We have this year given instruction in history in three classes: General history in the second class, English history in the third class, United States history (first half year) and Greek history (second half year) in the fourth class.

In natural science we have given a course in physics, taught by Prof. H. L. Hodgkins, of the Columbian College, and a half year's work in physical geography for the fourth class, taught by Mr. H. Grant Hodgkins.

The course in book-keeping and business forms given by Mr. Paul A. Steele is especially valued by many students who are debarred from lines of liberal study.

There are twelve students in the first class. Of these, five will be entitled by their record to receive diplomas, five are yet in doubt, and two will be unable to meet the requirements.

Experience shows that the change in the length of the recitation period is wise. The first Greek class, a class of less promise than the class of last year, has accomplished the same amount of work in the same number of periods. This is general. The work hitherto done in an hour can be done in three-quarters of an hour, and with distinct advantage both to teacher and to pupil.

We began the year with 88 periods of recitation a week. The necessities of our work compelled an increase in January to 94. Mr. C. T. Sempers has been assisting in our English instruction since February 1, and from that time we have maintained 100 periods of recitation a week.

Personal correspondence with patrons in regard to the progress of their boys has been found very helpful. It is easy to secure the coöperation of patrons, and such correspondence has always had good results.

The students themselves regard the Academy in a different and very wholesome way. This change has become apparent as they have felt influences of reorganization. The School is an idea with an ideal, and

they know it; it has individual importance as a part of the University, and they are proud of it; it has a policy, too, which, though it be vague, they recognize, and though they be graded down and made to feel its hard lines, they are proud of that too.

II.

The past year has been burdened with conditions that cannot affect the year to come. Advances made are, I believe, real and permanent. The foundation work can be safely builded upon.

In order to carry out the provisions of our schedule of studies for the coming year, it will be necessary to maintain 130 recitation periods a week throughout the year. To do this our teaching force must be considerably increased. As this is the last report before the June meeting of the corporation, it would seem a proper time for the Dean respectfully to call attention to certain considerations of importance, and in connection with these to submit certain recommendations to the President.

The general supervision of the system of class work, and accompanying duties of watchfulness over students, involve so great obligations that the Dean should not teach more than the minimum amount necessary to acquire a personal knowledge of all the students, and to maintain a personal hold upon them. This minimum amount is one important class in each year's work, so distributed as to bring all of the students under his instruction. I believe that the Dean cannot consistently with other duties teach more than 16 periods a week.

The interests of the Academy demand that all of its instructors recognize that the Academy has the first claim upon their time, and that they readily accord such service outside the hours of the school session as the exigencies of the school work shall require. This, of course, could not apply to special instructors, and for that reason it would seem wise, so far as practicable, to limit such special instruction.

I believe it a matter of sound policy that instructors who continue with us and demonstrate their efficiency in teaching should receive such increase in salary as shall appear just and practicable. I would respectfully recommend that the salary of Mr. Henry R. Pyne be increased to \$1,000 per annum. In my judgment, he should be accorded such a mark of approval for his work during the past year.

Mr. Paul A. Steele should be continued as Instructor in Book-keeping and Penmanship. It will be necessary that he teach four periods a week instead of three, as heretofore, and he should receive a corresponding increase in compensation.

I would recommend that Mr. George N. Henning be appointed as a regular instructor, provided he is open to such appointment. It will be necessary to make such an arrangement with Mr. Henning or to secure the full time of another instructor in order to do the work we shall have to do.

The matter of the appointment of an Instructor in Natural Science I deem of very great importance. We need a man with special qualifications for instruction in English as well as in Natural Science. We need a man with a power of personality who will appeal to the enthusiasm of boys, and who will devote himself without reserve to the work of the school.

There are certain needed improvements about the Academy building, besides the equipment of a laboratory already authorized, which should receive attention before the beginning of another year. I would especially suggest among these the desirability of furnishing the reception-room in such style as shall make it an attractive and pleasant room in which to receive patrons and strangers who visit the school.

All of the above recommendations are made in the belief that they are of immediate importance in the contemplated development of the Academy. This increase in resources is the least that is consistent with success; yet the Dean is ready to coöperate in any retrenchment or modification that shall seem wise. He wishes also to express in this report and review of the year's work an appreciation of kindly courtesies which have lightened and aided that work, and a generous support alone sufficient to guarantee the success of the school.

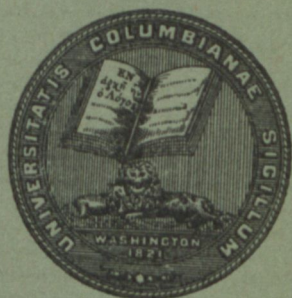
WM. A. WILBUR,
Dean of the Academy.

The Rev. BENJAMIN L. WHITMAN, D. D.,
President of the Columbian University.

532925

THE COLUMBIAN UNIVERSITY.

THE
COLUMBIAN ACADEMY,



WASHINGTON, D. C.,

1895-'96.

FOUNDED 1821.

532925

THE COLUMBIAN UNIVERSITY.

THE
COLUMBIAN ACADEMY,
WASHINGTON, D. C.,

1895-'96.

FROM THE UNIVERSITY PRESS.

JUDD & DETWEILER,
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OF WASHINGTON.

1896.

532925

THE COLUMBIAN ACADEMY.

THE REV. BENAIAH L. WHITMAN, D. D., PRESIDENT.

Instructors.

WILLIAM ALLEN WILBUR, A. M., DEAN,
Latin and English Literature.

HOWARD L. HODGKINS, PH. D.,
Physics.

H. GRANT HODGKINS, A. B.,
Mathematics.

HENRY ROGERS PYNE, A. M.,
Greek and Latin.

GEORGE NEELY HENNING, A. B.,
French, German, and History.

PAUL A. STEELE,
Commercial Law, Book-keeping, and Penmanship.

CHARLES TILDEN SEMPERS, A. M.,
English.

_____,*
Natural Science.

* To be appointed.

SCHEDULE OF STUDIES.

	PREPARATORY YEAR.	FIRST YEAR.	SECOND YEAR.	THIRD YEAR.	FOURTH YEAR.
ENGLISH.	GRAMMAR (Maxwell's), COMPOSITIONS, SUPPLEMENTARY READING. 4.*	GRAMMAR (Maxwell's), SUPPLEMENTARY READING, AND LITERATURE STUDIES. 3.	AMERICAN LITERATURE STUDIES, SUPPLEMENTARY READING. 2.	RHETORIC, SUPPLEMENTARY READING. 3.	ENGLISH LITERATURE STUDIES. 3. COLLEGE REQUIREMENTS IN LITERATURE. 2.
MATHEMATICS.	ARITHMETIC (Hobbs's). 5.	ARITHMETIC (2 Terms), ALGEBRA (1 Term). 5.	ALGEBRA (Wells's). 5.	GEOMETRY (Wells's). 4.	MATHEMATICS REVIEWED. 4.
LATIN.	LATIN LESSONS (2d and 3d Terms). 2.	LATIN LESSONS (2 Terms), NEPOS (1 Term). 5.	CÆSAR, GRAMMAR, AND COMPOSITION THROUGHOUT COURSE. 5.	VERGIL. 5.	CICERO. 5.
GREEK.			GREEK LESSONS (White). 5.	XENOPHON, GRAMMAR, AND COMPOSITION THROUGHOUT COURSE. 5.	HOMER AND GREEK HISTORIANS. 4.
FRENCH AND GERMAN.				FRENCH OR GERMAN. 3.	FRENCH OR GERMAN. 3.
HISTORY.	AMERICAN HISTORY (Monigoinery). 4.	GREEK HISTORY (Peddell's), READINGS IN ENGLISH HISTORY. 3.	ROMAN HISTORY (Allen's), READINGS IN ENGLISH HISTORY. 3.	MEDIEVAL HISTORY, SUPPLEMENTARY READING (Epoch Series). 2.	GREEK AND ROMAN HISTORY (Intensive Study). 2.
NATURAL SCIENCE.	GEOGRAPHY. 3.	PHYSICAL GEOGRAPHY. 3.		CHEMISTRY. 4.	PHYSICS. 4.
VARIOUS STUDIES.	SPELLING, READING, PENMANSHIP THROUGHOUT COURSE.		CIVIL GOVERNMENT AND AMERICAN HISTORY STUDIES. 2.	BOOK-KEEPING AND COMMERCIAL ARITHMETIC (2 Terms), COMMERCIAL LAW AND BUSINESS FORMS (1 Term). 3.	PSYCHOLOGY, PRACTICAL ETHICS. 3.

*Number of recitation periods a week.

THE ACADEMY.

The Academy is a corporate part of the Columbian University. It offers three courses of study: The first of these is especially designed to meet the requirements of the colleges; the second to meet the requirements of the scientific schools; the third to give a good general education of disciplinary and practical value to those who do not enter higher institutions.

CLASSICAL COURSE.

English	4 years.
Mathematics	4 "
Latin	4 "
Greek	3 "
History	3 "
French or German	1 year.

SCIENTIFIC COURSE.

English	4 years.
Mathematics	4 "
Latin	4 "
History	3 "
French or German	2 "
Natural Science	3 "

GENERAL COURSE.

English	4 years.
Mathematics	4 "
Latin	2 "
History	4 "
French or German	2 "
Natural Science	3 "
Commercial Law and Business Courses or Psychology and Ethics	1 year.

I.

The Classical Course.

This course of study is designed to furnish adequate preparation for any college. These are studies that are fundamental to a liberal education. Latin, Greek, Mathematics, and English are the bases of sound learning. They are the means of gaining knowledge and are a necessary part of the preparation of all who contemplate the more extended courses of study.

Progressive development is sought. In the languages emphasis is laid upon thorough knowledge of forms and usages, and composition is required from the first. The value of syntax and composition as disciplinary study can hardly be overestimated. Clear thought, close analysis, accurate expression, are everywhere insisted upon. In the higher classes the elements and qualities of style are studied and independent thought is encouraged.

II.

The Scientific Course.

This course prepares for the scientific and technical schools. It is based on Latin, Mathematics, English, and Natural Science. In place of Greek there are offered more extended courses in History and Modern Languages.

Considerable latitude is permissible in the arrangement of the studies of this course to meet the demands of varying requirements and the wants of special students. Students entering upon this course may be fitted for the Naval Academy at Annapolis or the West Point Military Academy in three years. Mathematics, which is fundamental to the study of all natural science, is supplemented by such studies in science that the whole course is admirably adapted to those who are to be engaged in scientific research and activity.

III.

The General Course.

This course is primarily for those who do not enter higher institutions. It offers four years of English, Mathematics, and History; three of Natural Science; two of Latin; two of French or German, and one of Business studies or Philosophical studies.

It is an Academic course, giving the mind thorough disciplinary training and contributing to its furnishings in many departments of knowledge. Attention is asked to the requirement of two years study of Latin. Latin is fundamental to the study of human civilization, and it affords a discipline and culture of mind in observation, reasoning, and expression that make it indispensable. A full year's work in purely business studies is offered. Commercial Arithmetic, Book-keeping, Commercial Law, and Business Forms constitute a desirable course for special students, and they enable those who wish to graduate to have the benefit of business training.

Very many of the boys of our city are compelled to forego a college education and to prepare themselves to enter at once, on leaving the Academy, some of the many avenues of self-support. This fact has been carefully considered, and this course is so arranged as to assist those who take it to make the best use of the time at their disposal.

The Preparatory Year.

The course of study includes a year of preparatory work which offers to younger pupils not prepared for the regular academic work a uniform preparation, and insures also a high standard of requirement throughout the course. The worth of this is commended to those who are intending at a later time to enter their sons for the regular course at the Academy. The personal supervision of younger boys and their special preparation for the regular course of study is a feature in the policy of the School which experience has suggested. We believe the wisdom of this will appear to many whose boys, though yet too young to begin secondary studies, nevertheless need the systematic training of regular work and personal supervision.

This course of preparatory work includes English Grammar, Arithmetic, History, Geography, and elementary Latin. It is believed that the Latin, with its inflections and order of words, will help the pupil to understand English Grammar, and that it will make the transition from elementary work less abrupt, and will insure proficiency in the First Year's Latin. When it appears that an amount of work has been done equivalent to that of the sixth grade in the public schools, pupils may enter without examination upon the studies of this preparatory year.

Entrance Requirements.

The requirements for entrance to the first year of the regular courses are (1) Elementary English Grammar, (2) Arithmetic (through percentage), (3) American History (Montgomery's or an equivalent), (4) Geography. Previous knowledge of Latin is not essential for admission to this class.

Prize Scholarship Examinations.

Examinations for entrance will be given in the Academy building, 1335 H street, on Monday, September 28, 1896, beginning at nine o'clock a. m. These examinations will be upon the four subjects named; they are open to all who wish to take them, including the members of the Preparatory Class of the previous year. The pupil having the highest general average in these examinations will be given a free scholarship for one year; the pupil having the next highest average will be given a half scholarship for the same time.

Students who have completed the work of the Preparatory year may enter upon the First year without further examination. All others will be expected to take the entrance examination in September. Any who fail in their First year requirements may enter upon the work of the Preparatory year without examination if it appear that they are prepared to do so. Students who enter after the Academic year begins will, upon examination, be assigned to such classes as they are fitted for.

Graduation.

Those completing any one of the three regular courses of study will receive a diploma. Special students who complete the prescribed work in three or more departments will receive a certificate of attainment in those studies. Students who enter upon any line of study will have due credit in that study for work satisfactorily completed in any school of like grade.

INSTRUCTION.

The Academy is conducted on Christian principles, both in its discipline and its teachings, but no instruction is given and no influence exerted that is of a sectarian character. Effective work is dependent upon order, and order will be maintained. Subordination is essential to

the purpose of study, but, further than this, it is an end in itself. Self-discipline for its own sake is absolutely essential in education. Sympathy and confidence are the necessary relations of the teacher and the pupil. Such relations keep alive the boy in the man and develop the man in the boy. It is believed that all instruction should be an incentive to the pupil, and that that instruction only is wholesome which appeals to the whole man. Studies have been correlated with a view to the symmetrical development of the student, to an insight into the world in which we live, and to some command over its resources.

I.

English.

The study of English is required throughout every regular course. Work in English composition is constant and practical; themes are prepared by all the students and these are corrected and made the basis for positive instruction. The study of every other subject is made to contribute to the training in English.

It is believed that the study of formal grammar has been too much neglected in many schools. The return of grammar is already heralded. It will be taught from a text-book, with frequent exercises in parsing and analysis. A clear knowledge of the principles of syntax is important, and this demands systematic study. It is thought, too, that experience discourages the use of inductive text-books in the earlier years of secondary instruction. The pupil's attitude during this time is mainly receptive and this should define the character of his work. He is credulous that he may receive truth.

In the literature courses masterpieces are studied and memorized, and in the higher classes text-books are used only to give direction and form to the course.

The following lists are arranged for study and supplementary reading:

PREPARATORY YEAR.

Kingsley.	Greek Heroes.
Irving.	Sketch Book.
Hawthorne.	Tales of the White Hills.
Macaulay.	Lays of Ancient Rome.
Lamb.	Tales from Shakespeare.
Longfellow.	The Courtship of Miles Standish.

FIRST YEAR.

Hughes.....	Tom Brown at Rugby.
Scott.....	Ivanhoe.
Stevenson.....	Treasure Island.
Scott.....	The Lady of the Lake.
Whittier.....	Snow-Bound.
Longfellow.....	Evangeline.

SECOND YEAR.

Irving.....	Tales of a Traveller.
Cooper.....	Deerslayer.
Hawthorne.....	The House of the Seven Gables.
Wallace.....	Ben-Hur.
Webster.....	Adams and Jefferson; First Bunker Hill Oration.
Lowell.....	The Vision of Sir Launfal.

THIRD YEAR.

Goldsmith.....	The Vicar of Wakefield.
Blackmore.....	Lorna Doone.
Shakespeare.....	The Merchant of Venice.
Shakespeare.....	Julius Caesar.
Tennyson.....	The Idylls of the King.
Ruskin.....	Selections.
Emerson.....	The American Scholar.

FOURTH YEAR.

Inductive studies on the College Requirement list of the following year.

In 1897, Shakespeare's *The Merchant of Venice*, Burke's *Speech on Conciliation with America*, Scott's *Marmion*, and Macaulay's *Life of Samuel Johnson* will form the list.

In 1898, Shakespeare's *Macbeth*, Burke's *Speech on Conciliation with America*, De Quincey's *The Flight of a Tartar Tribe*, and Tennyson's *The Princess*.

In 1899, Shakespeare's *Macbeth*, Milton's *Paradise Lost*, Books I and II, Burke's *Speech on Conciliation with America*, and Carlyle's *Essay on Burns*.

In addition to this, examinations will be given at intervals throughout the year on a course of general reading, also prescribed by the Colleges. The requirements for this portion of the work in English will be as follows:

In 1897 the books will be Shakespeare's *As You Like It*, Defoe's *History of the Plague in London*, Irving's *Tales of a Traveller*, Hawthorne's *Twice-Told Tales*, Longfellow's *Evangeline*, and George Eliot's *Silas Marner*.

In 1898 they will be Milton's *Paradise Lost*, Books I and II, Pope's *Iliad*, Books I and XXII, The Sir Roger de Coverley Papers in the *Spectator*, Goldsmith's *The Vicar of Wakefield*, Coleridge's *Ancient Mariner*, Southey's *Life of Nelson*, Carlyle's *Essay on Burns*, Lowell's *The Vision of Sir Launfal*, and Hawthorne's *The House of the Seven Gables*.

In 1899, Dryden's *Palamon and Arcite*, Pope's *Iliad*, Books I, VI, XXII, and XXIV, The Sir Roger de Coverley Papers in the *Spectator*, Goldsmith's *The Vicar of Wakefield*, Coleridge's *The Ancient Mariner*, De Quincey's *The Flight of a Tartar Tribe*, Cooper's *The Last of the Mohicans*, Lowell's *The Vision of Sir Launfal*, Hawthorne's *The House of the Seven Gables*.

II.

Mathematics.

These studies are of fundamental importance and are required throughout all the regular courses. The aim is thoroughness; the pupil is taught principles rather than rules, and examples are regarded as training in the knowledge of the principles which they illustrate. So far as possible all processes will be illustrated and explained by visible magnitudes, as the mind most readily grasps the relationship of quantities through the eye.

In Arithmetic the time will be devoted to the study of such practical examples as the boy meets at every turn. In percentage the more general applications will be studied. Intricate problems of exchange, customs, equation of payments, and all unintelligible applications of Arithmetic will be omitted. The aim will be to make the student master of such processes as he may need in life.

In Algebra the course in factoring will be emphasized as furnishing a firm foundation for all that follows. The identities and differences between Arithmetic and Algebra will be constantly illustrated.

In Geometry the pupil will be encouraged to seek original solutions. By oral recitation, without the aid of a drawing, he will be trained to a clear conception of the theorem and to facility in processes of reasoning. The work in original exercises will be thorough and constant, in order that the student may see that the principles he has studied are of general application.

III.

The Ancient Languages.

Latin and Greek are of the highest importance in the Secondary school. The work in these languages is preparatory to the appreciative study of their literatures. In this preparatory study Grammar and Composition become an end in themselves, and they are also a most efficient means of mental discipline. The man who knows no Latin or Greek has innumerable doors of scientific and professional activity closed to him, and he finds his own language a mystery.

The aim of the Academy is to graduate students who can write and explain Latin and Greek with a degree of readiness, and can translate these languages with ease and accuracy. Knowledge of the principles of Latin and Greek construction will be tested by constant exercise in composition.

Attention will be paid to Latin and Greek terms and roots with a view to their proper use in the construction of scientific terminology. Passages will be memorized, and written work will supplement oral work in the class-room, in order that ear and eye and memory may aid in fixing the forms of the language.

The text itself will be read and the pupil will be encouraged to appreciate the meaning without translation and in the order of the original. Questions on the text will, in general, be asked before the translation is begun. This holds attention on Latin forms and relations, and by removing difficulties beforehand, makes possible a rendering into idiomatic English.

IV.

The Modern Languages.

A knowledge of French and German not only opens to the student the treasures of two of the greatest and richest of all literatures, but it broadens his mind by presenting facts and ideas from a point of view widely different from that of the English-speaking races. The ability to read French and German is absolutely necessary to the student of science or of English literature.

The chief object in the lower courses is to enable the student to translate readily at sight, and ultimately to be able to understand the language

without the medium of English. To this end reading is begun very early in the course, and a large amount is read at sight during the year. Constant practice in pronunciation is given. Only the essentials of grammar are taught, the finer points of syntax being reserved for later years. Great stress, however, is laid upon thoroughness in these essential parts of grammar, as otherwise intelligent reading is impossible; but the grammatical work is always kept strictly subordinate to the main object of the course—ability to read at sight.

V.

History.

In accordance with the increased importance attaching to the study of history the courses of this department have been considerably extended. American history is studied throughout the preparatory year. As important problems in government and civilization appear in their simplest form in the history of Greece this is made the basis for the work of the regular course. Comprehensive work in English history is required in the earlier years. Those who demand special studies in American history may take them in connection with Civil Government in the third year. A course in Mediæval history is also given in this year, and in the last year there is arranged an intensive study of topics from Greek and Roman history.

History connects itself easily with English. Each is made to strengthen the other through the preparation of essays on historical themes. Supplementary reading lists, specially devoted to American topics, are arranged and pupils are encouraged to take this work in connection with the subjects studied.

VI.

Natural Science.

This department of instruction will be greatly enlarged. Desirable courses of study will be given in Physical Geography, Chemistry, and Physics. A laboratory will be equipped at the Academy to afford all facilities for illustration and practice, and such attention will be paid to these branches as their importance demands.

Physical Geography will be made a comprehensive study, treating of the physical environment of man. It will deal specifically with the

physical features of the earth, with elementary studies in botany, zoölogy, astronomy, meteorology, and anthropology. It will be taught, also, with a view to its worth in training powers of observation, of scientific imagination, and of reasoning. Ready access to the National Museum makes possible valuable object-study in many lines of this work.

Chemistry will precede Physics in the course, in order that the pupil may have a better mathematical preparation for the study of Physics. The text-books and the laboratory will be mutually supplementary, and laboratory note-books will embody a record of all work done.

GENERAL INFORMATION.

Term Examinations and Reports. The Regulation of Absences.

The School year will consist of three terms: the first will end at the Christmas holidays; the second at the spring recess; the third in June. Examinations will be given at the end of each term, and term reports of work and conduct will be rendered. Examination work will count one-third in determining scholastic standing. No student will be permitted to enter upon the work of a higher class in any study until that of the lower has been satisfactorily completed.

An excuse, duly signed by the parent or guardian, will be required for every case of absence or tardiness. Excuse-blanks designating the absence or tardiness will be forwarded to the parent or guardian for signature. Absence or tardiness that remains unexcused at the expiration of seven days will be charged against the deportment of the student. All absence necessarily affects scholarship, but unexcused absence and tardiness also affect deportment.

Scholarships.

A limited number of scholarships are available for such students as need assistance. These scholarships may be assigned under certain explicit and invariable conditions. The conditions are (1) that the student's deportment be above censure, and (2) that he attain an average rank of at least .75 in his studies.

In addition to the above scholarships, the "Admiral Powell Endowment" provides a few free scholarships, which will be given (under the same conditions) to students preparing for admission to the United States Naval Academy at Annapolis.

Failure to satisfy the requirements of rank and deportment will constitute a forfeiture of the scholarship, and upon such forfeiture it will be withdrawn.

Friday Lectures.

A course of Friday afternoon lectures has been instituted this year. These lectures, made possible through the kindness of many friends and the close relations of the Academy with other departments of the University, have supplemented the routine work of the School by very entertaining and helpful lines of general culture. Addresses have thus far been made by President Whitman, Dr. Lee D. Lodge, Dr. Otis T. Mason, Mr. E. Hilton Jackson, Prof. Cleveland Abbe, and Dr. A. P. Montague.

Literary Society.

The Hermesian Society, composed of students of the two higher classes, meets weekly for practice in debate and for improvement in composition.

The society is under the general supervision of the instructors, but this supervision never takes the form of disagreeable interference.

Three medals are given by this society. One is awarded by Mr. A. M. Sayre to the successful contestant in a prize debate. Another medal for excellence in debate is given each year by the society, and is awarded to that member who has made the best record as a debater throughout the entire year. The third medal is given by the society to the best essayist.

Annual Prizes.

The Regular Prizes of the Academy consist of First and Second Scholarship Medals in each class.

Gold medals are also given to those students who have been blameless in deportment and against whom there is no record of absence or tardiness during the entire session.

Through the liberality of the late Mr. Samuel Norment, President of the Central National Bank of Washington, the authorities of the School will award annually three prizes (\$25, \$20, and \$15) to the students whose scholarship, combined with irreproachable conduct, shall entitle them to be considered respectively the First, Second, and Third Honor Boys of the School. These prizes will be awarded only to those who take the full course.

The following special prizes are also given:

The Roome Gold Medal, founded in honor of the lamented and

scholarly Dr. Edward Roome, for excellence in the Greek Language, given by Mrs. Lillian K. Roome.

The Gold Medals for excellence in Declamation at the Commencement, given by Mr. B. H. Warner.

The Sayre Gold Medal, for excellence in Debate.

HONOR ROLL.

(Session 1894-'5.)

FOR HIGH GRADE OF SCHOLARSHIP.

First Class—First Prize: David Laurance Chambers.
Second Prize: Stanton C. Peelle.

Second Class—First Prize: Manfredi F. Lanza.
Second Prize: Arthur Prince Spear.

Third Class—First Prize: Nelson H. Rollins.

Fourth Class—First Prize: Raymond Outwater.

Jackson Gold Medal in Latin—David Laurance Chambers.

Roome Gold Medal in Greek—David Laurance Chambers.

Hodgkins Gold Medal in Mathematics—David Laurance Chambers.

Alden Gold Medal in English Composition—David Laurance Chambers.

Cuthbert Gold Medal in History—David Laurance Chambers.

Townsend Gold Medal for Elocution during the Session—William Dent Sterrett.

The Webster and Depew Gold Medals for Declamation at the commencement, presented by B. H. Warner, Esq., awarded by a Committee of Judges—first award, David Laurance Chambers; second award, William Dent Sterrett.

Sayre Gold Medal for Excellence in Debate—Manfredi F. Lanza.

Hermesian Gold Medal for Excellence in Composition—Rolvix Harlan.
Honorable mention of David Laurance Chambers.

Prizes founded by the late Samuel Norment, Esq., and now given by Mrs. Norment, awarded to the highest-honor boys of the School:

First prize—\$25 in gold: David Laurance Chambers.

Second prize—\$20 in gold: Raymond Outwater.

Third prize—\$15 in gold: Manfredi F. Lanza.

Gold medals for Punctuality and Deportment:

Four years—George Emery Green.

Three years—David Laurance Chambers and Stanton C. Peelle.

Two years—William Saunders Manning.

One year—Louis Glavis, Manfredi F. Lanza, Selma M. Mason, Raymond Outwater, George I. Raybold, Nelson H. Rollins, Otto L. Veerhoff, Thom Williamson, Jr., W. Lothrop Woodward, and W. B. Yoder.

Graduates.

J. William Beatty,	English, French, Mathematics, Physics, Latin, Greek.
Lorenzo Starr Brown, Jr.,	English, French, Mathematics, Physics.
D. Laurance Chambers,	English, French, Mathematics, Latin, Greek.
William Plumer Copeland,	English, Mathematics, Physics.
William Lowry Farnham,	English, French, Physics.
Donald C. Fugitt,	English, French, Mathematics, Physics.
G. Emery Green,	English, French, Physics.
Rolvix Harlan,	English, French, Mathematics, Physics.
William Saunders Manning,	English, French, Mathematics, Physics.
Selma M. Mason,	English, French, Mathematics, Physics.
William Mitchell,	English, French, Mathematics, Physics, Latin.
Stanton C. Peelle,	English, French, Mathematics, Physics, Latin, Greek.
Bishop C. Perkins,	English, French, Mathematics, Physics.
Preston B. Ray,	English, French, Mathematics, Physics.
George I. Raybold,	English, French, Mathematics, Physics.

Students.

NAME.	PATRON.	ADDRESS.
W. Elmer Bacon.....	Mr. S. H. Bacon	1416 N St.
Wirt Barham.....	Hon. J. A. Barham	"Ebbitt."
Charles Bell	Gen. George Bell, U. S. A.....	1909 G St.
Earl Biscoe.....	Maj. H. L. Biscoe.....	813 21st St.
Charles Bittinger.....	Mrs. I. M. Bittinger.....	1421 K St.
Everett H. Brosius.....		2420 14th St.
Augustus J. Burgdorf...	Mr. Augustus Burgdorf.....	1334 N. Y. Ave.

NAME.	PATRON.	ADDRESS.
Frederick B. Burke.....	Mr. T. W. Burke.....	800 L St.
Charles T. Cabrera, Jr..	Mr. Charles T. Cabrera.....	1914 Penn. Ave.
Liddell Caffery.....	Hon. Donaldson Caffery.....	1334 19th St.
Harry Clark Caldwell..	Dr. Charles T. Caldwell.....	949 S St.
Horace W. Chittenden..	Mr. George B. Chittenden.....	Mt. Pleasant.
Andrew J. Cummings..	Mrs. Mary E. Cummings..	Chevy Chase, Md.
Morris E. Dow.....	Mrs. Wm. Coppinger.....	927 French St.
John C. Drake, Jr.....	Mrs. E. B. Drake.....	1321 M St.
Otis B. Drake.....	Mrs. E. B. Drake.....	1321 M St.
James F. Dunlop.....	Mr. Wm. L. Dunlop.....	3014 N St.
Frank Norton Everett..	Mr. Edgar L. Everett.....	"Concord."
Joseph H. Falconer....	Mr. W. C. Johnson.....	1502 13th St.
Weston Brown Flint....	Col. Weston Flint.....	1213 K St.
Carroll T. Fugitt.....	Mr. N. B. Fugitt.....	1212 K St.
Joaquin A. Gana.....	Señor Domingo Gana.....	1319 K St.
Louis Glavis.....	Dr. George O. Glavis.....	1701 Q St.
Lafayette Greenlaw....	Mr. S. B. Greenlaw.....	Oak Grove, West- moreland Co., Va.
Raphael N. Gwynn.....	Mr. R. C. Gwynn.....	17 Iowa Circle.
Charles H. Holmead, Jr.	Mr. Charles H. Holmead.....	1527 I St.
A. Lawrence Hopkins..	Mr. Archibald Hopkins.....	1826 Mass. Ave.
Alfred Francis Hopkins.	Mrs. F. A. M. Hopkins.....	1730 I St.
Manfredi F. Lanza.....	Mme. Clara Lanza.....	13th and Prince- ton Sts.
Melville W. Lindsey....	Mr. Samuel E. Lindsey.....	Alexandria, Va.
William V. Mason, Jr..	Mrs. Eva M. Mason.....	1706 F St.
F. Vallette McNair.....	Commodore F. V. McNair, Yokohama, Japan. U. S. N.	
Arthur C. Morgan.....	Mr. R. W. Morgan.....	2410 Pa. Ave.
Henry J. Mullin.....	Mr. Z. T. Mullin.....	"Bancroft."
William Dunlop Owens..	Dr. Thomas Owens, U. S. N..	1203 N. H. Ave.
Raymond Outwater....	Rev. Theron Outwater.....	1352 B St., S. W.
Bennett L. Porter.....	Mr. M. G. Porter.....	1538 I St.
Wallace A. Ritchie....	Mr. J. Suit Ritchie.....	620 E St., N. E.
Richard D. Rittenour..	Mr. N. D. Rittenour.....	815 King St., Alexandria, Va.
Nelson Rollins.....	Mrs. M. F. Rollins.....	1261 4½ St., S. W.
G. M. Rye, Jr.....	Mr. G. M. Rye.....	"Metropolitan."
William Sioussat.....	Mr. C. M. Sioussat.....	1736 Q St.

THE COLUMBIAN ACADEMY.

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NAME.	PATRON.	ADDRESS.
Arthur P. Spear.....	Gen. Ellis Spear	Columbia Heights.
Davis Fonville Stakely..	Rev. Charles A. Stakely.....	1414 16th St.
Douglas Sterrett.....	Rev. J. M. Sterrett.....	Columbia Uni- versity.
William D. Sterrett....	Rev. J. M. Sterrett.....	Columbia Uni- versity.
Andrew Bryson Taylor.	Medical Director J. Y. Taylor, 1727 Q St. U. S. N.	
William J. G. Thomas..	Mr. Van Buren Thomas.....	1839 6th St.
J. E. Van Auker.....	Mr. F. L. Van Auker.....	1304 F St.
Otto L. Veerhoff.....	Mr. W. H. Veerhoff.....	910 8th St.
Louis W. Weaver.....	Mrs. A. M. Weaver.....	412 T St.
George Wedderburn....	Mr. Alexander Wedderburn..	931 R. I. Ave.
John Wignall.....	Mrs. R. R. West.....	Brookland, D. C.
W. Lothrop Woodward.	Mr. S. W. Woodward.....	2015 Wyoming Ave.
Gasquet di Zerega.....	Mr. Alfred di Zerega.....	2114 O St.
Students in the Academy.....55.		

Calendar.

1896.

Sept. 28, Monday	Entrance Examinations.
Sept. 30, Wednesday.....	First Term begins.
Nov. 26-29, inclusive.....	Thanksgiving Recess.
Dec. 14-18, inclusive	Examinations.
Dec. 18, Friday.....	First Term closes.

WINTER VACATION.

1897.

Jan. 4, Monday	Second Term begins.
Feb. 22, Monday.....	Washington's Birthday, Holiday
March 15-17, inclusive	Examinations.
March 17, Wednesday.....	Second Term closes.
March 18-21, inclusive	Spring Recess.
March 22, Monday.....	Third Term begins.
April 16, Friday	Holiday.
May 31, Monday	Memorial Day, Holiday.
June 1-4, inclusive.....	Examinations.
June 4, Friday.....	Third Term closes.
June 8, Tuesday	Annual Graduation Exercises.

Expenses.

Tuition for the Scholastic year, \$100. Students received under the former rates of tuition may continue in the Academy at the same charge.

Students taking Chemistry or Physics will be charged a fee of \$10 to cover cost of materials and breakage in laboratory practice.

All bills must be paid half yearly in advance, the first half due in September, the second half February 1. Bills are payable to

ROBERT H. MARTIN,

Secretary and Treasurer of Columbian University.

To Patrons.

The Dean will be at the Academy, 1335 H street, northwest, from the twenty-first of September until the twenty-sixth, inclusive, from 10 o'clock a. m. to 1 o'clock p. m., to meet patrons and answer inquiries concerning the School. Entrance examinations will be given on Monday, the twenty-eighth of September. All new students wishing to enter upon the work of the First year will be expected to take these examinations. The Academic year begins on Wednesday, the thirtieth of September.

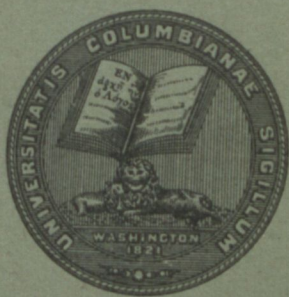
Patrons and friends are invited to visit the Academy and inspect the work of the class-room. Catalogues and full information will be sent to any address on application to

WILLIAM ALLEN WILBUR,

Dean of the Academy.

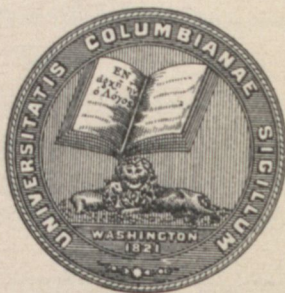
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TREASURER'S REPORT
ON THE
PROPERTY AND FINANCES
OF
THE COLUMBIAN UNIVERSITY
FOR THE
FISCAL YEAR ENDING MAY 31, 1896.



WASHINGTON, D. C. :
JUDD & DETWEILER, PRINTERS.
1896.

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ANNUAL REPORT OF THE TREASURER.

Schedule "A" is a Detailed Statement of Receipts and Disbursements.

" "B," Statement of the Receipts and Disbursements of the Scholarship Funds and Sinking Fund—Medical Faculty Note.

" "C," Liabilities.

" "D," Investments of the Scholarships.

" "E," Investments of the Corcoran Endowment Fund.

" "F," Miscellaneous Investments.

" "G," Description and Assessed Valuation of Real Estate.

" "H," Table of Insurance.

Appended to the report is a detailed statement of the financial operations of the Medical and Dental Departments of the Columbian University from May 7, 1895, to May 15, 1896.

All of which is respectfully submitted.

ROBERT H. MARTIN,
Treasurer.

WASHINGTON, D. C., *June 1, 1896.*

SCHEDULE "A."

Detailed Statement of Receipts and Disbursements.

ACADEMIC DEPARTMENT.

RECEIPTS.

College :

Tuition.....	\$5,677 50	
Diplomas	80 00	
Sale of invitations	8 50	
Breakage in chemistry	3 74	
		<u>\$5,769 74</u>

Academy :

Tuition.....	\$2,935 00	
Rents, Admiral Powell property.....	1,800 00	
		<u>4,735 00</u>
		<u>\$10,504 74</u>

NOTE.—Tuition due the College, \$100 ; tuition due the Academy, \$160.

DISBURSEMENTS.

Salaries :

Professor A. J. Huntington, in full to May 31, 1896.	\$1,800 00
Professor S. M. Shute, in full to September 30, 1895.	600 00
Professor C. E. Munroe, in full to May 31, 1896....	1,800 00
Professor A. P. Montague, in full to May 31, 1896..	1,800 00
Professor A. P. Montague, salary as Dean of the College.....	500 00
Professor J. H. Gore, in full to May 31, 1896.	1,800 00
Salary as Secretary of Faculty, year ending May 31, 1895	40 00
Professor J. McB. Sterrett, in full to May 31, 1896.	1,800 00
Professor H. L. Hodgkins, in full to May 31, 1896..	1,706 66
Professor L. D. Lodge, in full to May 31, 1896.....	1,706 66
Professor A. P. Montague, salary as Principal of Academy to September 23, 1895.	124 44

Professor W. A. Wilbur, salary as Dean of Academy from September 23, 1895, to May 31, 1896.....	\$1,240 00	
Professor G. J. Smith, from September 23, 1895, to May 31, 1896	1,240 00	
Professor H. Schoenfeld, in full to May 31, 1896...	355 52	
Instructor E. H. Jackson, in full to May 31, 1896..	342 19	
Instructor H. G. Hodgkins, in full to May 31, 1896.	800 00	
Instructor H. R. Pyne, in full to May 31, 1896....	800 00	
Instructor R. M. Alden, in full to May 31, 1896....	251 16	
Instructor C. T. Sempers, in full to May 31, 1896..	100 00	
Instructor G. N. Henning, in full to May 31, 1896..	644 43	
Instructor P. A. Steele, in full to May 31, 1896....	100 00	
Instructor Edward Farquhar, in full to May 31, 1896.	355 52	
Instructor E. B. Hay, in full to May 31, 1896.....	134 00	
	<hr/>	\$20,040 58
Janitor's wages:		
Walter Honesty.....		280 00
Repairs—Academy:		
James Baird, carpenter work.....	\$132 66	
John McGregor, carpenter work	129 41	
J. I. Atchison, plumbing	69 80	
H. Markward, painting and varnishing desks.....	15 00	
	<hr/>	346 87
Powell House:		
J. I. Atchison, putting in range, grate, etc.....	\$88 00	
J. I. Atchison, plumbing	2 50	
	<hr/>	90 50
Insurance:		
Powell House.....		12 50
Water rents:		
Academy.....	\$34 59	
Powell House.....	10 88	
	<hr/>	45 47
Taxes:		
Powell House, year ending June 30, 1896.....		334 35
Gas:		
Academy.....		41 75

Advertising—

College :

The Evening Star Newspaper Company.....	\$186 22	
The Washington Post Company.....	164 80	
The Washington News Publishing Company.....	1 10	\$352 12

Academy :

The Evening Star Newspaper Company.....	\$72 55	
The Washington Post Company.....	35 40	107 95

Printing—

College :

E. B. Hay, engrossing diplomas.....	\$2 10	
C. H. Elliott & Company, invitations.....	50 56	
Judd & Detweiler.....	273 63	326 29

Academy :

Judd & Detweiler.....		176 63
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Stationery—

College :

William Ballantyne & Sons.....	\$41 02	
E. A. Wright.....	11 60	52 62

Academy :

William Ballantyne & Sons.....	\$66 03	
E. A. Wright.....	20 56	86 59

Fuel—

Academy :

J. T. Given's Sons.....	\$3 75	
J. Maury Dove.....	188 53	192 28

Sundries—

College :

J. E. Lockett, treasurer, rent of hall for commencement.....	\$65 00	
Louis Weber, music for commencement.....	39 00	

F. W. Bolgiano, floral decorations for commencement	\$12 50	
Carl Petersen, medals	20 00	
W. B. Moses & Sons, corduroy couch, etc.....	24 00	
J. B. Kieffer, treasurer, annual dues to Association of Colleges Midland States and Maryland....	5 00	
Miss Lillian Pace, tuition refunded	20 00	
E. C. Cutter, overcoat stolen from cloak-room.....	30 00	
M. W. Beveridge, water-cooler and stand.....	6 25	
S. J. Peelle, overcoat stolen from cloak-room.....	25 00	
L. S. Brown, overcoat stolen from cloak-room.....	20 00	
Metzerott Music Company, on account purchase of piano.....	50 00	
		\$316 75

Academy:

J. E. Lucket, treasurer, rent of hall for commencement.....	65 00	
Louis Weber, music for commencement.....	39 00	
Carl Petersen, medals.....	75 00	
J. S. Wimsatt & Co., removing ashes.....	6 50	
Great Falls Ice Company, ice.....	26 00	
W. A. Wilbur, books, etc.....	30 25	
W. A. Boyd, city directory.....	5 00	
		246 75
		<u>\$23,050 00</u>

LAW DEPARTMENT.

RECEIPTS.

Tuition:

Regular.....	\$18,609 01	
Post-graduate.....	1,449 99	
		\$20,059 00
Diplomas	1,220 00	
Sale of invitations	26 40	
Sale of stationery and thesis paper.....	7 20	
		<u>21,312 60</u>

DISBURSEMENTS.

Salaries :

Professor W. S. Cox, in full to May 31, 1896.....	\$3,000 00	
Professor W. A. Maury, in full to May 31, 1896 ...	3,000 00	
One-third of fees, Graduate School, for year ending May 31, 1896.....	483 33	
Professor J. M. Harlan, in full to May 31, 1896....	3,000 00	
Professor W. G. Johnson, in full to May 31, 1896...	1,000 00	
One-third of fees, Graduate School, for year ending May 31, 1896.....	483 33	
Professor D. J. Brewer, in full to May 31, 1896	500 00	
Professor A. C. Bradley, in full to May 31, 1896....	250 00	
Professor G. H. Emmott, in full to May 31, 1896...	250 00	
Professor Benj. Butterworth, in full to May 31, 1896.	250 00	
Professor Melville Church, in full to May 31, 1896..	770 00	
Professor H. E. Davis, in full to May 31, 1896	200 00	
		<u>\$13,186 66</u>

Lighting :

United States Electric Lighting Company	347 37
---	--------

Advertising :

The Evening Star Newspaper Company.....	\$332 66	
The Washington Post Company.....	354 90	
The Washington Times Company.....	65 00	
West Publishing Company.....	100 00	
		<u>852 56</u>

Printing :

E. B. Hay, engrossing diplomas.....	\$42 70	
Judd & Detweiler.....	381 87	
E. A. Wright, invitations.....	400 45	
		<u>825 02</u>

Stationery :

Wm. Ballantyne & Sons.....	29 08	
E. A. Wright.....	10 45	
		<u>39 53</u>

Library :

West Publishing Company, vols. 7 to 23, Federal Cases.....	\$170 00
W. H. Morrison's Son, United States Reports, Illi- nois Reports, Massachusetts Reports, Court of Ap- peals Reports.....	29 75

M. Curlander, District of Columbia Court of Appeals Report, District of Columbia Reports, and Maryland Reports.....	\$48 00	
Bancroft-Whitney Company, American State Reports, vols. 39 to 47.....	36 00	
Edward Thompson Company, American and English Encyclopedia of Law, vols. 28 and 29.....	6 09	
John Byrne & Company, Hayward and Hazleton District of Columbia Reports, vols. 1 and 2; Digest United States Supreme Court, vol. 3; Walker on Patents.....	24 50	
W. H. Lowdermilk & Company.....	57 50	
Remick, Schilling & Company, American Negligence Cases, vols. 1 and 2.....	11 00	
		\$382 75

Prizes:

A. M. Sayre, First Essay prize.....	\$40 00	
A. F. Cosby, Second Essay prize.....	30 00	
A. Y. Bradley, Third Essay prize.....	20 00	
E. H. May, Parker prize.....	100 00	
J. M. Gray, Britton prize.....	50 00	
		240 00

Sundries:

Louis Gebicke, manager, music for commencement.....	\$48 00	
W. H. Rapley, rent of Academy of Music for commencement.....	103 00	
F. W. Bolgiano, floral decorations for commencement.....	65 00	
W. B. Moses & Sons, seats for commencement.....	41 30	
United States Electric Lighting Company, lamps.....	2 20	
R. H. Martin, telegrams and freight bills paid.....	6 24	
W. A. Boyd, City Directory.....	5 00	
E. A. Wright, paper, envelopes, dies, and stamping.....	23 65	
W. P. Walker, class book.....	25 00	
		319 39
		<u>\$16,193 28</u>

SCIENTIFIC DEPARTMENT.

RECEIPTS.

Tuition.....	\$10,491 04
Diplomas	30 00
Deposits returnable to students.....	337 26
Laboratory material.....	579 38
Contributed by professors for advertising.....	155 23
J. S. Mills, breakage.....	1 45
F. W. Clarke, appropriation for Atlanta Exhibit returned, not used	25 00
Reimbursing Corcoran school for amount improperly drawn against it.....	2 50
Contribution for Ruleaux Professorship.....	1,000 00
	<u>\$12,621 86</u>

DISBURSEMENTS.

Salaries:

Professor C. E. Munroe.....	\$2,353 52
Professor A. P. Montague.....	323 80
Professor H. L. Hodgkins.....	1,351 86
Professor L. D. Lodge.....	626 71
Professor G. J. Smith.....	523 87
Professor H. Schoenfeld	318 59
Professor F. R. Fava	403 79
Professor H. King.....	314 21
Professor F. A. Wolff, Jr.....	555 36
Professor G. P. Merrill.....	171 10
Professor A. F. Craven	192 91
Professor W. C. Winlock	54 51
Professor F. Lamson-Scribner.....	13 53
Professor L. Amateis	252 34
Professor T. N. Gill	58 14
Professor C. E. Barry.....	28 38
Professor J. C. Hornblower	64 21
Professor Hans Zopke.....	890 90
Professor Edward Farquhar.....	77 19
Professor E. S. Farwell.....	131 13
Professor Felix Freyhold	131 26
	<u>8,837 31</u>

Repairs:

Charles Rittershofer, repairing locks.....	\$18 75	
J. U. Burket, repairing electric lights.....	10 25	
John McGregor, drawing-boards, carpenter work, repairs to chemical laboratory, &c.....	120 04	
S. E. Rabbitt, repairing blackboards	15 00	
J. I. Atchison, plumbing.....	31 00	
		\$195 04

Gas and electric lighting:

Washington Gas Light Company.....	\$191 75	
U. S. Electric Lighting Company.....	19 04	
		210 79

Advertising:

Scientific Publishing Company.....	\$144 12	
The Evening Star Newspaper Company.....	372 77	
The Washington Post Company.....	115 45	
The Nation.....	51 18	
		683 52

Printing:

E. B. Hay, engrossing diplomas.....	\$1 05	
C. H. Elliott & Company, invitations and envelopes.	50 57	
Judd & Detweiler.....	550 95	
D. W. Gregory, check book.....	9 00	
		611 57

Stationery:

Wm. Ballantyne & Sons.....	\$6 00	
E. A. Wright, invitations	15 94	
		21 94

Fuel:

J. Maury Dove.....	19 20	
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Laboratories.

Corcoran:

Richards & Company, chemicals	\$386 64	
Eimer & Amend, chemicals.....	105 40	
		492 04

College:

Eimer & Amend.....	83 47	
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Physical—

Materials and chemicals:

Eimer & Amend.....	\$297 83	
Ziegler Electric Company.....	69 05	
	<hr/>	\$366 88

Equipment:

C. E. Munroe, apparatus	40 00	
	<hr/>	\$406 88

Mineralogy:

Eimer & Amend.....		40 68
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Assay:

Richards & Company.....		74 95
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(The above expenditures are an estimated two years' supply for the laboratories.)

Sundries:

F. W. Bolgiano, floral decorations for commencement.....	\$12 50	
Frank Toomey, lathe for Mechanical Laboratory...	70 00	
B. T. Sener, postage.....	15 00	
F. W. Clarke, appropriation for Atlanta Exhibition	25 00	
R. H. Martin, freight bills paid.....	15 96	
Hans Zopke, advanced for material to be purchased in Europe for Department of Mechanical Engineering.....	30 00	
W. H. Boyd, City Directory.....	5 00	
Charles W. Holmes, tuition refunded.....	7 50	
	<hr/>	180 96

Deposits returned:

F. E. Phelps.....	\$22 88	
H. C. Workman.....	22 45	
A. E. Matthewson	21 85	
T. L. Costigan.....	18 95	
J. W. Purman.....	16 75	
F. L. J. Boettcher.....	2 50	
C. W. Purington.....	5 35	
James Hamilton.....	7 55	
	<hr/>	118 28
		<hr/>
		11,976 63

GRADUATE SCHOOL.

RECEIPTS.

Tuition	\$1,095 83	
Matriculation fees	180 00	
Laboratory material.....	25 00	
Deposits returnable to students.....	9 16	
Diplomas.....	210 00	
Sales of invitations.....	50	
Sales of stationery.....	7 50	
F. H. Bigelow, salary donated.....	11 25	
		<u>\$1,539 24</u>

DISBURSEMENTS.

Salaries:

Professor A. J. Huntington.....	\$33 75	
Professor C. E. Munroe.....	104 99	
Professor J. McB. Sterrett.....	33 75	
Professor A. P. Montague.....	16 87	
Professor L. D. Lodge.....	255 94	
Professor H. Schoenfeld.....	62 81	
Professor G. P. Merrill.....	101 26	
Professor A. F. Craven.....	22 50	
Professor F. Lamson-Scribner.....	33 76	
Professor T. N. Gill.....	16 88	
Dr. D. K. Shute.....	52 50	
Instructor C. Abbe.....	33 75	
Instructor F. H. Bigelow.....	11 25	
		<u>780 01</u>

Advertising:

The Evening Star Newspaper Company.....	\$60 63	
The Washington Post Company.....	52 50	
		<u>113 13</u>

Printing:

E. B. Hay, engrossing diplomas.....	\$5 60	
Judd & Detweiler.....	113 09	
E. A. Wright, invitations.....	21 00	
		<u>139 69</u>

Stationery:

E. A. Wright, invitations.....	15 94	
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Sundries:

Dr. T. Edwin Brown, traveling expenses from Philadelphia.....	\$10 00	
Jacob Fussell Company, lunch for jury experts, June 5.....	7 00	17 00

Deposits returned:

W. A. Case.....	\$21 60	
F. L. J. Boettcher.....	18 25	39 85
		<u>\$1,105 62</u>

SUMMER SCHOOL.

RECEIPTS.

Tuition.....	\$295 00
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DISBURSEMENTS.

Salaries:

Professor L. D. Lodge.....	\$39 37	
Professor H. Schoenfeld.....	16 88	
Professor A. F. Craven.....	30 00	
Instructor H. G. Hodgkins.....	75 00	
Instructor E. L. Thurston.....	33 75	
Instructor P. Fireman.....	22 50	
Instructor M. M. Ramsey.....	3 75	\$221 25

Janitor's services:

W. L. Lewis.....	10 00
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Advertising:

The Evening Star Newspaper Company.....	28 50
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Printing:

Judd & Detweiler.....	52 34
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Sundries:

B. T. Sener, postage.....	5 00
	<u>\$317 09</u>

GENERAL EXPENSE ACCOUNT.

Balance on hand per last report, May 31, 1895 (includes balances from every school)..... \$6,756 85

RECEIPTS.

Sundries:

Sale of caps and gowns.....	\$107 25	
Borrowed from Riggs & Company.....	15,200 00	
J. H. Lange, diploma.....	10 00	
Philosophical Society, use of lecture hall for annual meeting.....	10 00	
R. E. Hardwicke, rent base-ball park.....	5 00	
	<hr/>	15,332 25

Rents:

No. 222 Third street northwest, Mrs. C. B. Cutler..	\$786 50	
Lots 12 and 13, square 13, T. J. Callaghan.	\$124 98	
Lot 1, square south of 12, Littlefield & Alvord.....	145 85	
	<hr/>	270 83
Law Building: W. V. R. Berry.....	\$216 67	
F. T. Browning.....	180 00	
H. W. Garnett.....	350 00	
A. E. L. Keese.....	42 00	
R. B. Lewis.....	320 00	
W. H. Smith.....	96 00	
Enoch Totten.....	360 00	
Mackall & Maedel.....	120 00	
	<hr/>	1,684 67
		2,742 00

Interest:

On real-estate notes..... \$7,248 51

On Corcoran Endowment Fund notes:

Medical faculty..... 536 00

On miscellaneous investments:

Medical faculty..... 255 00

8,039 51

On bonds:

Church of the Covenant..... 185 00

Subscriptions to Guarantee fund..... 392 50

Dividends on stocks:

Quinsigamond National Bank.....	\$30 00	
Pennsylvania Telephone Company.....	20 00	
		<u>\$50 00</u>
		<u>\$33,498 11</u>

DISBURSEMENTS.

Salaries:

B. L. Whitman, President, in full to May 31, 1896.	\$3,749 94	
R. H. Martin, Secretary and Treasurer, in full to May 31, 1896.....	2,000 00	
B. T. Sener, Registrar and Librarian, in full to March 31, 1896.....	750 00	
		<u>\$6,499 94</u>

Janitors' wages:

W. L. Lewis.....	\$520 00	
R. T. Harris.....	332 50	
H. Brown.....	360 00	
H. Randolph, fireman.....	65 00	
Edward Tolliver, attendant in cloak-room.....	80 00	
		<u>1,357 50</u>

MISCELLANEOUS.

Repairs and Materials.

University Building:

John McGregor, repairs of damage by fire.	\$911 52	
John McGregor, opening flues, cutting joists out of same, and repairs.....	983 78	
Charles Rittershofer, repairing locks....	3 00	
J. I. Atchison, plumbing.....	42 40	
T. F. Leland, painting roof.....	115 00	
W. B. Moses & Sons, furniture, carpets, and curtains.....	555 22	
Polishing floor of President's room.....	6 00	
		<u>2,616 92</u>

Law Building:

John McGregor.....	\$5 00	
J. I. Atchison, plumbing.....	13 75	
S. S. Shedd & Bro.	12 00	
		<u>30 75</u>
		<u>2,647 67</u>

Insurance:

University Building.....	\$100 00	
Furniture, etc., University Building...	25 00	
	<hr/>	\$125 00
Law Building.....		24 00
Cutler House, 222 Third street.....		15 00
	<hr/>	\$164 00

Water rents:

University Building.....	\$150 50	
Law Building.....	26 00	
Cutler House.....	37 50	
	<hr/>	214 00

Taxes—Real estate:

Whole of tax for fiscal year ending June 30, 1896, on lots in squares south of 12, 13, 16, and 23, and in squares west of 23, 83, 87, 88, and 89 (unim- proved).....	\$451 60	
Whole of tax for year ending June 30, 1896, on lots south half of 13 and all of 14, square 489 (Law Building).....	332 31	
Whole of tax for year ending June 30, 1896, on lots 42 and 43, reservation 10 (222 Third street N. W.)	255 11	
	<hr/>	1,039 02

Taxes—Personal:

Second half tax on \$1,600, year ending June 30, 1895.	\$12 00	
5 per cent. penalty on same.....	60	
	<hr/>	12 60

Gas:

University Building.....	284 50	
Law Building.....	80 00	
	<hr/>	364 50

Advertising:

The Evening Star Newspaper Company.....	\$97 92	
The Washington Post Company.....	74 10	
The Washington News Publishing Company.....	84 00	
The Cultivator Publishing Company.....	18 00	
American Baptist Home Missionary Society.....	24 00	
United States Naval Institute.....	12 50	
The Washington Times Company.....	83 45	
	<hr/>	393 97

Printing:

E. B. Hay, engrossing diplomas.....	\$3 85	
Judd & Detweiler.....	1,173 08	
D. W. Gregory, engraving invitations, &c.....	226 74	
		\$1,403 67

Stationery:

D. W. Gregory.....	\$15 91	
William Ballantyne & Sons.....	78 90	
Easton & Rupp.....	1 50	
E. A. Wright.....	213 71	
		310 02

Fuel:

J. T. Given's Sons.....	\$110 50	
J. Maury Dove.....	468 00	
		578 50

Library:

C. L. Van Noppen, 5 volumes History for Ready Reference...	30 00	
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Postage:

W. L. Lewis.....	\$6 00	
R. H. Martin.....	71 00	
H. L. Hodgkins.....	7 00	
B. T. Sener.....	359 00	
R. O. Deyer.....	52 00	
G. F. Mathison, delivering catalogues.....	62 70	
		557 70

Traveling expenses:

Dr. B. L. Whitman.....	\$468 37	
Dr. S. H. Greene.....	40 55	
Dr. C. A. Stakely.....	74 80	
Rev. Dr. Patten.....	5 00	
Rev. A. H. Strong.....	30 00	
Rev. H. L. Morehouse.....	33 11	
Professor A. P. Montague.....	10 95	
Professor W. A. Wilbur, moving to Washington...	150 00	
		812 58

Expressage—freights and telegrams:

G. W. Knox Express Company, moving library given by Mrs. C. C. Emmerich.....	\$6 75	
R. H. Martin, freight and telegrams.....	25 68	
		32 43

Clerk hire:

Miss F. M. Allen.....	\$110 00	
Miss C. B. Babcock.....	7 00	
D. W. Limerick.....	3 00	
Thomas Grant.....	6 00	
C. W. Boyle.....	6 00	
B. T. Sener.....	150 00	
	<hr/>	\$282 00

Interest:

Bell & Company.....	\$383 33	
American Security and Trust Company.....	200 00	
Riggs & Company.....	151 26	
Fitch, Fox & Brown.....	300 00	
	<hr/>	1,034 59

Sundries:

E. A. de Schweinitz, secretary-treasurer, loan to Medical Faculty.....	\$1,200 00
Riggs & Company, payment on note.....	300 00
L. H. and J. M. Schneider, moving safe, etc.....	31 00
J. S. Wimsatt and Company, removing débris.....	13 50
F. W. Bolgiano, decorations.....	43 00
G. T. Budd, caterer to corporation and Southern Baptist Convention.....	107 00
Jacob Fussell Company, lunch for corporation meeting.....	17 00
Louis Gebicke, music for inaugural ceremonies.....	110 00
D. Towers, rent of Convention Hall for inaugural ceremonies.....	253 00
Wyckoff, Seamans & Benedict, typewriter supplies.....	10 83
Day & Wright, stenography and typewriting.....	17 05
Strawbridge & Clothier, caps and gowns.....	125 00
Woodward & Lothrop, ribbons.....	100 00
Chesapeake and Potomac Telephone Company, rent of phone to June 30, 1896, \$100; long-distance phone, \$1.70.....	101 70
Henry Romeike, subscription to News Clippings Agency.....	40 00
Instantaneous Fire Alarm Company, alarm box.....	20 00

Royce & Marean, rent of Gardner clock to December 31, 1895.....	\$30 00	
L. B. Gallaher, illustrating lectures with stereopticon.....	72 00	
B. P. Murray, illustrating lectures with stereopticon.....	10 00	
W. B. Moses & Sons, furniture.....	101 25	
H. O. Towles, 36 chairs.....	72 00	
W. H. Veerhoff, 2 picture frames.....	2 50	
J. U. Burkett, 4 electric lights and shades.....	10 00	
N. W. Burchell, supplies for janitor.....	12 90	
J. B. Lambie, supplies for janitor.....	17 90	
C. C. Bryan, supplies for janitor.....	2 14	
The American and Continental Sanitas Company, disinfectants.....	14 30	
Charles Bruse, janitor's service.....	22 50	
M. G. Copeland & Company, covering roof after fire, May, 1895.....	15 00	
Peter Giordani, cleaning statuettes after fire, May, 1895.....	35 00	
Great Falls Ice Company, ice.....	65 16	
H. Baumgarten, rubber stamps.....	3 75	
R. B. Rice & Company, mucilage.....	3 50	
W. A. Boyd, city directories.....	10 00	
J. H. Gheen, livery.....	14 50	
J. R. and L. R. Conwell, coupon tickets for commencement.....	5 00	
Contribution to the Columbian Call.....	25 00	
I. Shepard, secretary, National Educational Society, membership dues, one year.....	4 00	
W. C. Duvall, lease of Capitol Park for Athletic Association.....	150 00	
Dr. S. H. Greene, services as acting President, one year.....	1,000 00	
		\$4,187 48
		<u>\$21,922 17</u>

RECAPITULATION.

ACTUAL RECEIPTS AND DISBURSEMENTS IN EACH DEPARTMENT FOR THE
FISCAL YEAR ENDING MAY 31, 1896.

Balance on hand per report of May 31, 1895 (includes balances
in all schools)..... \$6,756 85

Receipts:

College.....	\$5,769 74
Academy.....	4,735 00
Law School.....	21,312 60
Corcoran School.....	12,621 86
Graduate School.....	1,539 24
Summer School.....	295 00
General expense account.....	26,741 26
	<hr/> 73,014 70
	<hr/> \$79,771 55

Disbursements:

College.....	\$16,552 14
Academy.....	6,497 86
Law School.....	16,193 28
Corcoran School.....	11,976 63
Graduate School.....	1,105 62
Summer School.....	317 09
General expense account.....	21,922 17
	<hr/> 74,564 79

Balance on hand May 31, 1896..... \$5,206 76

Tuition, Interest, and Rents Due and Unpaid May 31, 1896.

College.....	\$100 00
Academy.....	160 00
Law School.....	1,515 00
Corcoran School.....	797 13
General Fund, interest.....	735 00
General Fund, rents.....	650 52
Total.....	<hr/> \$3,957 65

SCHEDULE "B."

MARY LOWELL STONE SCHOLARSHIP FUND.

Corcoran Scientific School:

Invested in note of John McGregor.....	\$2,000 00	
Accrued interest to May 31, 1896 (held in the General Fund).....	120 00	
		<u>\$2,120 00</u>

ELTON FUND.

Cash balance as per last report and still on hand.....	<u>\$50 64</u>
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WILLIE E. FITCH FUND.

Balance on hand as per last report	\$60 35
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Receipts:

Interest for twelve months, at 6 per cent., on note of Josiah W. McLachlen for \$1,200, secured on lot 78, square 1008.....	72 00
Interest on bank deposit.....	37

Credit balance.....	<u>\$132 72</u>
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SINKING FUND—MEDICAL FACULTY NOTE.

Balance as per last report.....	\$0 80
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Receipts:

From Dr. E. A. de Schweinitz, treasurer.....	250 00
	<u>\$250 80</u>

Disbursements:

Invested in note of G. N. Rider.....	250 00
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Credit balance.....	<u>\$0 80</u>
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KENDALL FUND.

Chesapeake and Ohio Canal bonds, Nos. 1642, 1643, each \$500.....	\$1,000 00
Note of J. W. Hogg (assumed by J. T. Power, now deceased), dated March 31, 1883, on or before five years, at 4 per cent. Secured on lot 31, south grounds Columbian University (1431 Chapin street).....	1,875 00
Note extended for five years from May 5, 1892, at 6 per cent.	
Interest paid to May 5, 1896.	
Invested in note of John McGregor, dated June 29, 1893, payable in five years, at 6 per cent. per an- num, payable semi-annually, secured by deed of trust on subplot 18, square 757	3,000 00
	<hr/> \$5,875 00

FARNHAM FUND.

Chesapeake and Ohio Canal bond No. 2164.....	1,000 00
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DAVIS FUND.

Chesapeake and Ohio Canal bond No. 960.....	1,000 00
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CARTER FUND.

Chesapeake and Ohio Canal bond No. 2165.....	1,000 00
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WILLIE E. FITCH FUND.

Note of Josiah W. McLachlen, trustee of the Security Invest- ment Company, dated September 26, 1891, payable in three years, with interest at 6 per cent. per annum, payable semi- annually, secured by deed of trust on lot 78, square 1008....	1,200 00
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Interest paid to March 26, 1896.

Time of payment extended for three years from Septem-
ber 26, 1894.

Total.....	<hr/> <hr/> \$10,075 00
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SCHEDULE "C."

LIABILITIES.

Note secured on the University Building, 5 per cent.	\$18,000 00
Note secured on Law Building and Third-street house, 5 per cent.	16,000 00
Note secured on Preparatory School Building, 6 per cent.	4,434 13
Borrowed from Bell & Company on note of Columbian University and loaned to the Medical Faculty at 6 per cent., note dated October 24, 1893.	5,000 00
Borrowed from Bell & Company on note of Columbian University for current expenses (note of Lucy E. Knight for \$7,000, three years, 6 per cent., deposited as collateral)	6,000 00
Borrowed from the American Security and Trust Company for current expenses (note of Powers & Peterson for \$10,000, five years, 6 per cent., deposited as collateral)	4,000 00
Due Professor L. D. Lodge for writing History of Columbian University and for services rendered in the Department of Political Philosophy during scholastic year 1894-1895.	500 00
Borrowed of Riggs & Company on demand note, dated July 2, 1895, of acting President and Treasurer, at 5 per cent. per annum, proceeds to be loaned to Medical and Dental Faculties by order of corporation.	1,200 00
Borrowed from Riggs & Company by authority of corporation, at annual meeting in 1895, for current expenses (note of the Treasurer given therefor July 31, 1895)	1,200 00
Borrowed from Riggs & Company by authority of corporation for current expenses December 4, 1895, \$5,500; April 29, 1896, \$5,000; May 27, 1896, \$2,000.	12,500 00
	<u>\$68,834 13</u>

SCHEDULE "D."

Investments of the Scholarships.

ELTON FUND.

Chesapeake and Ohio Canal bonds, interest at 6 per cent., payable January and July, Nos. 2041, 2053 to 2058, 2060, each \$1,000	\$8,000 00	
Nos. 1640, 1641, each \$500	1,000 00	
	<hr/>	\$9,000 00
Note of Roberta K. F. Oberteuffer and William G. Oberteuffer, dated March 23, 1894, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on part of lot 2, square 245.	5,000 00	
	<hr/>	<u>\$14,000 00</u>

SCHEDULE "E."

Investments of the Corcoran Endowment Fund.

Cash balance on hand May 31, 1895		\$3,158 92
Bonds:		
Church of the Covenant bonds, interest 5 per cent., payable January and July:		
Nos. 187 to 189, each \$1,000	\$3,000 00	
Nos. 32 to 35, each \$100	400 00	
	<hr/>	\$3,400 00
Interest collected to January 1, 1896.		
Maysville and Lexington Railroad Company bonds, interest at 6 per cent., payable January and July, Nos. 101, 131, and 132, each \$1,000	3,000 00	
	<hr/>	6,400 00

Notes:

Note of W. E. Earle, dated May 31, 1893, payable in five years, at 6 per cent., interest payable semi-annually, secured by deed of trust on part of lot 4, Merrick's subdivision of square 181..... \$18,000 00
Interest paid to May 31, 1896.
Payment assumed by Charles D. Walcott.

Note of Francis W. Baker, James J. Lampton, and James S. McIlhenny, dated February 7, 1896, for three years, with interest at 6 per cent., interest payable semi-annually, secured by deed of trust on lot 38, block 32, Columbia Heights..... 7,500 00

Note of Miss Mary E. Mann, dated May 10, 1886, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on lots 26, 27, 44, 45, 46, and 47, Lanier Heights..... 1,000 00
Interest paid to May 10, 1896.

Note of Alice E. Birtwell and Daniel Birtwell, dated April 1, 1890, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on part of lot 14, in square 865..... 2,000 00
Interest paid to April 1, 1896.
Time of payment extended for three years from April 1, 1893.

Note of Archibald M. McLachlen and Robinson White, trustees of the Security Investment Company, dated May 7, 1891, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on lot 9, Lanier Heights..... 3,000 00
Interest paid to November 7, 1895.
Time of payment extended for three years from May 7, 1894.
Interest overdue, \$90.

Note of Faculty of National Medical College—J.

Ford Thompson, M. D., president, and A. F. A.

King, M. D., dean—dated July 1, 1887, with interest

at 5 per cent. per annum, payable semi-

annually, \$250 to be paid annually as a sinking

fund for redemption of note..... \$10,000 00

Interest paid to January 1, 1896.

Note of the Columbian University, dated September

20, 1882, payable in one year, with interest at 5

per cent. per annum, payable semi-annually, se-

cured by deed of trust on Law Building and No.

222 Third street..... 16,000 00

(Purchased from National Savings bank.)

Note of the Columbian University, dated September

26, 1882, payable in one year, with interest at

5 per cent. per annum, payable semi-annually, se-

cured by deed of trust on original lots 9, 10, 11,

and part of 12, square 222 (University Building

and grounds)..... 18,000 00

(Purchased from Riggs & Company March 26,
1888.)

Note of H. H. Barker (assumed by the Columbian

University), dated April 9, 1881, payable in three

years, with interest at 6 per cent. per annum, pay-

able semi-annually, secured by deed of trust on

sublots 5 and 6, square 250 (Preparatory School

Building)..... 4,434 13

(Purchased from the Louise Home April 9, 1888.)

Note of George N. Rider (assumed by Miss Mary E.

Mann), dated March 7, 1890, payable in one year,

with interest at 6 per cent. per annum, payable

semi-annually, secured by deed of trust on lot 23,

Lanier Heights; payment extended five years

from March 15, 1892 1,600 00

Interest paid to March 15, 1896.

Note of Miss Mary E. Mann, dated April 20, 1892,

payable in five years, with interest at 6 per cent.

per annum, payable semi-annually, secured by

deed of trust on lot 59, Lanier Heights..... 2,000 00

Interest paid to April 20, 1896.

Note of Elizabeth M. Power and Mrs. Mary C. Peterson, dated May 5, 1892, payable in five years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on lots 30 and 31, south grounds, Columbian University... \$10,000 00

Interest paid to May 5, 1896.

Deposited with American Security and Trust Company as collateral security for \$1,000.

Note of Robert W. Fenwick for subscription..... 1,000 00

Interest paid to December 26, 1894.

Interest overdue, \$60.00.

Note of Rudolph Goldschmid, dated March 28, 1894, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on part of lots 11 and 12, square 275. 2,500 00

Interest paid to March 28, 1896.

Note of Charles H. Burgess, dated April 2, 1894, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on lots 40, 41, 42, 43, and 44, square 711..... 4,000 00

Interest paid to April 2, 1896.

Note of Miss Lucy E. Knight, dated May 31, 1893, payable in five years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on lot 21, square 368. 7,000 00

Interest paid to November 31, 1895.

Interest overdue, \$210.

Deposited with Bell & Company as collateral security for \$6,000.00.

Note of Mrs. Clara M. Houghton, dated March 12, 1894, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on subplot 203, square 206..... 6,500 00

Interest paid to March 12, 1896.

Note of Harry Lee Rust, dated May 26, 1893, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on part of lot 9, block 10, "Bloomingdale". \$2,800 00

Interest paid to May 26, 1896.

Payment assumed by T. T. Moore.

Time of payment extended for 3 years from May 26, 1896.

Note of Harry Lee Rust, dated May 26, 1893, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on part of lot 9, block 10, "Bloomingdale". 2,800 00

Interest paid to May 26, 1896.

Payment assumed by E. Williamson.

Time of payment extended for 3 years from May 26, 1896.

Note of Harry Lee Rust, dated May 26, 1893, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on part of lot 9, block 10, "Bloomingdale". 2,800 00

Interest paid to May 26, 1896.

Payment assumed by C. H. Keller.

Time of payment extended for 3 years from May 26, 1896.

Four notes of Albert B. Hines and Walter Hieston, each for \$1,250.00, dated June 12, 1893, payable in five years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on lots 23, 24, 25, and 26, square south of square 104..... 5,000 00

Interest paid to December 12, 1895.

Note of Andrew Wilson, dated June 1, 1894, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on lot 8, square 8, Eckington..... 2,000 00

Interest paid to June 1, 1896.

Payment assumed by Thomas J. Shahan.

Note of Francis T. Bowler, dated November 8, 1894,
payable in five years, with interest at 6 per cent.
per annum, payable semi-annually, secured by
deed of trust on part of lot 9, square 757 \$1,400 00
Interest paid to May 8, 1896.

Note of Abram S. McCoy, dated October 1, 1891,
payable in two years, with interest at 6 per cent.
per annum, payable semi-annually, secured by
deed of trust on subplot 53, square 193. 5,000 00
Interest paid to March 31, 1896.
Time of payment extended for three years from
October 1, 1895.

Three notes of August Burgdorf, dated November 5,
1894, payable in three years, with interest at 6 per
cent. per annum, payable semi-annually, secured
by deed of trust on lots 93 to 101, 116 to 120, 123,
124, 148, 166 to 174, square 672 12,000 00
Interest overdue, \$360.00.

Note of Roberta K. F. and William G. Oberteuffer,
dated November 19, 1894, payable in three years,
with interest at 6 per cent. per annum, payable
semi-annually, secured by deed of trust on lot 2,
square 245 3,500 00
Interest paid to November 19, 1895.
Interest overdue, \$105.

Note of Walter Hieston, dated June 14, 1892, pay-
able in five years, with interest at 6 per cent. per
annum, payable semi-annually, secured by deed
of trust on subplot 30, block 14, Le Droit Park ... 2,000 00
Interest paid to December 14, 1895.

Note of James J. Lampton, dated February 19, 1895,
payable in five years, with interest at 6 per cent.
per annum, payable semi-annually, secured by
deed of trust on subplot 74, square 152 9,000 00
Interest paid to February 19, 1896.

Three notes, dated July 2, 1895, signed by the Medical Faculty, payable in one, two, and three years, respectively, interest at 6 per cent. per annum, payable semi-annually, each \$400.....	\$1,200 00
Interest paid to January 2, 1896.	
Sundry notes on subscription (believed to be worthless).....	1,125 00
Cash balance on hand.....	<u>\$458 92</u>

SCHEDULE "F."

Miscellaneous Investments.

Certificate No. 5, for five shares Quinsigamond National Bank.....	\$500 00
Dividends paid to April 1, 1896.	
Two notes of Miss Lillian G. Hayden of \$250 each, dated May 7, 1886, payable in one and two years respectively, with interest at 6 per cent. per annum, payable semi-annually, secured on lot 49, Lanier Heights.....	500 00
Interest paid to May 7, 1896.	
Time of payment of notes extended to May 7, 1897.	
Ten notes of Faculty of National Medical College, each for \$500, dated October 24, 1893, payable in one, two, three, four, five, six, seven, eight, nine, and ten years respectively, with interest at 6 per cent. per annum, payable semi-annually.....	5,000 00
Interest paid to April 24, 1896.	
Invested in note of Charles F. Burgess and Wilhelmina F. Burgess for \$4,000, dated April 2, 1894, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on lots 40, 41, 42, 43, 44, square 711..	2,600 00
Pennsylvania Telephone Company certificate No. 1646 for eight shares, par value \$50 each.....	400 00
Dividends paid to April 1, 1896.	
	<u>\$9,000 00</u>

Sinking Fund Medical Faculty Note.

Church of Covenant bonds, interest at 5 per cent., payable January and July, Nos. 46, 47, and 48, each \$100.....	\$300 00
Interest collected to January 1, 1896.	
Invested in note of George N. Rider (Corcoran Endowment Fund).....	1,333 00
Loaned General Fund.....	15 00
Invested in note of Charles H. Burgess for \$4,000 (Corcoran Endowment Fund).....	200 00
	<hr/>
	\$1,848 00

SCHEDULE "G."—Description and Assessed Valuation of Real Estate.

	Square.	Lot.	Assessed Value of lot.	Value of Improvements.	Total Assessed Value.
University Building and grounds.	222	9, 10, 11, & p't 12.	\$58,534 00	\$80,000 00	\$138,534 00
The Columbian Academy and grounds.	250	Subs. 5 & 6.	4,989 00	21,500 00	26,489 00
Medical College.	250	Of 6 & of s. 1.	6,020 00	5,000 00	11,020 00
Stable, lot in rear of Medical College.	250	Of 6.	2,565 00		
Law Building.	489	Of sub. 1.	336 00	1,500 00	4,401 00
Third-street house.	42	S. 1/2 13.	3,578 00		
Admiral Powell property.	126	Sub. C.	7,202 00	8,500 00	19,280 00
Unimproved lots.	South of 12	Of sub. D.	6,293 00	6,000 00	17,180 00
"	13	Of 1.	8,820 00	12,000 00	22,290 00
"	13	8.	1,470 00		
"	13	10.	3,070 00		3,070 00
"	13	11.	2,052 00		2,052 00
"	13	12.	1,331 00		1,331 00
"	13	13.	2,244 00		2,244 00
"	16	9.	2,354 00		2,354 00
"	23	8.	1,853 00		1,853 00
"	23	8.	2,139 00		2,139 00
"	83	5.	325 00		325 00
"	87	5.	3,590 00		3,590 00
"	88	2.	1,422 00		1,422 00
"	89	2.	295 00		295 00
			129 00		129 00
					\$259,998 00

SCHEDULE "H."—Table of Insurance.

Premises.	Amount.	Name of Company.	Location of Company.	No. of Policy.	Pre-mium.	Policy expires.
Law Building. {	\$3,000	Columbia.....	Dist. of Col..	1,169	\$12 00	Jan. 29, 1897, 1 yr.
	3,000	Firemen's	" "	17,531	12 00	Jan. 29, 1897, 1 yr.
Cutler (Third-street) house.	5,000	Arlington.....	" "	4,887	15 00	Jan. 5, 1897, 1 yr.
The Columbian Academy {	5,000	Columbia.....	" "	980	50 00	Nov. 1, 1897, 3 yr.
	2,500	Franklin.....	" "	8,640	25 00	Nov. 1, 1897, 3 yr.
University Building..... {	5,000	Columbia.....	" "	1,888	20 00	Jan. 10, 1897, 1 yr.
	5,000	Riggs.....	" "	5,553	20 00	Jan. 10, 1897, 1 yr.
	5,000	Arlington.....	" "	5,273	20 00	Jan. 10, 1897, 1 yr.
	5,000	Corcoran.....	" "	3,360	20 00	Jan. 10, 1897, 1 yr.
	5,000	Franklin.....	" "	9,171	20 00	Jan. 10, 1897, 1 yr.
Furniture, fixtures, &c., in { University Building.	5,000	{ Liverp'l & Lon- don and Globe. }	N. Y. Branch	4,918,515	25 00	June 13, 1896, 1 yr.
Powell house, No. 1707 I { street.	5,000	Franklin.....	Dist. of Col..	10,416	12 50	Feb. 11, 1897, 1 yr.
	2,500	Firemen's	" "	19,013	25 00	Feb. 14, 1897, 5 yr.

REPORT OF AUDITING COMMITTEE.

To the Corporation of the Columbian University.

GENTLEMEN: The Auditing Committee have examined the bonds and notes, exhibiting the investment of the moneys pertaining to the various endowment funds and the miscellaneous securities of the Corporation now in the hands of the Treasurer, and find the foregoing schedules to be correct, and that the bonds, etc., are now safely kept in the vaults of the National Safe Deposit Company.

We have also carefully examined the foregoing statements of receipts and expenditures during the year ending May 31, 1896, and balances, and find the same to be correct and to agree with the vouchers.

J. ORMOND WILSON.

CHARLES W. NEEDHAM.

~~S. W. WOODWARD.~~

JUNE 13, 1896.

*Annual, Financial Report of the Medical Department of the
Columbian University from May 7, 1895, to May 15, 1896.*

1895.
May 7. Cash balance from last account..... \$829 36

1896.
May 15. Total receipts from lecture fees, etc., including
\$1,873.00 from Dental Department, as per agree-
ment..... 13,496 79

1895.
July 1. Loan from Columbian University..... 600 00
Total receipts..... \$14,926 15
Total payments to date..... 14,178 66
Balance on hand... .. \$747 49

The expenditure of \$14,178.66 may be itemized
as follows:

1895.
July 1. Columbian University, half year's interest on build-
ing loan of \$10,000, at 5 per cent. per annum.... \$250 00
July 1. Annual payment of sinking fund on above loan... 250 00
Oct. 3. Semi-annual interest on balance \$5,000 loan, \$4,500,
at 6 per cent..... 135 00
Oct. 3. Sinking fund 500 00
1896.
Jan. 18. The Columbian University, semi-annual interest on
\$10,000 loan, at 5 per cent., due January 1..... 250 00
April 20. Interest on \$600.00 loan 18 00
Semi-annual interest on \$4,000, at 6 per cent..... 120 00
May 15. Salary of Professor J. Ford Thompson..... 800 00
" " " W. W. Johnston..... 800 00
" " " A. F. A. King..... 800 00
" " " D. W. Prentiss 800 00
" " " D. K. Shute..... 800 00
" " " W. P. Carr..... 800 00
" " " E. A. de Schweinitz..... 500 00
" " " Walter Reed 250 00
" " " V. A. Moore..... 200 00
" " " Dr. E. G. Seibert.....

1896.

May 15.	Salary of Professor G. W. Cooke.....	\$125 00
" "	" " " G. N. Acker.....	120 00
" "	" " " James Kerr.....	100 00
" "	" " " Dr. James Carroll.....	150 00
" "	" " " P. Jaisohn.....	25 00
" "	" " " C. W. Richardson.....	75 00
" "	" " " H. C. Yarrow.....	50 00
" "	" " " T. E. McArdle.....	40 00
" "	" " " Sterling Ruffin.....	50 00
" "	" " " E. L. Tompkins.....	50 00
" "	" " " H. L. E. Johnson.....	55 00
" "	" " " A. C. Patterson.....	55 00
" "	" " " J. Van Rensselaer.....	50 00
" "	" " " A. E. Shands.....	50 00
" "	" " " G. Byrd Harrison.....	50 00
" "	" " " W. K. Butler (2 years).....	100 00
	Demonstrator of anatomy.....	732 15
	Fuel.....	182 20
	Electric light and gas.....	408 16
	Advertising.....	517 63
	Repairs to building, etc.....	226 50
	Catalogues.....	130 50
	Commencement, prizes, music, two collations, etc..	341 00
	Fire insurance.....	83 00
	Janitors (two).....	420 00
	Secretary-Treasurer's commission.....	337 40
	Museum.....	204 61
	Laboratories, new apparatus, equipments, etc.....	824 88
	Telephone.....	70 00
	Sundries, postage, printing, water rent, incidentals.	482 63

Total expenditure as above..... \$14,178 66

Respectfully submitted.

E. A. DE SCHWEINITZ,
Secretary-Treasurer.

We, the undersigned, have examined the foregoing account of Dr. de Schweinitz, the books and vouchers, and hereby certify that they are correct.

(Signed)

A. F. A. KING,
W. P. CARR,
Committee of Audit.

MAY 15, 1896.

*Annual Financial Report of the Dental Department of the
Columbian University from May 7, 1895, to May 15, 1896.*

1895.

May 8. Cash balance remaining from last account.....	\$272 64
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1896.

May 15. Receipts from lecture fees, etc., to date	5,021 60
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Total receipts.....	\$5,294 24
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Total expenditures to date	4,988 45
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Balance on hand	\$305 79
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The expenditure of \$4,988.45 may be summarily itemized as follows:

Salary of Dr. J. R. Hagan, demonstrator in Dental Infirmary, 9 months, at \$50 per month.....	\$450 00
Salary of Prof. H. C. Thompson	430 00
Salary of Prof. J. Hall Lewis.....	430 00
Salaries of four medical professors in Dental Department turned over to general fund of Medical Faculty, as by agreement...	1,730 00
Paid Medical Department one-fourth of annual interest on building loan of \$10,000 and on \$600 loan.....	143 00
E. J. Lewis, dental materials for Infirmary	594 13
Catalogues and addressing same.....	82 60
Janitor	120 00
Advertising.....	184 54
Commencement expenses (prize, music, diplomas, etc.), sun- dries	267 13
Dean's commission for the year, at 2½ per cent.....	125 50
Secretary-Treasurer's commission, at 2½ per cent.....	125 50
Demonstrator of Anatomy.....	306 05

Total expenditure as above stated.....	\$4,988 45
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Respectfully submitted by—

E. A. DE SCHWEINITZ,
Secretary-Treasurer.

We, the undersigned, have examined the foregoing account of Dr. de
Schweinitz and hereby certify that it is correct.

(Signed)

J. H. LEWIS,
H. C. THOMPSON,
Committee of Audit.

MAY 15, 1896.

532925

